

NOV 17, 2017

#316

Apple

Magazine™

SUPERHEROS

JUSTICE
LEAGUE

DC LOOKS BEYOND
BATMAN & SUPERMAN

STRATEGY

AMAZON OR
WALMART?

SOME RETAILERS ARE
CHOOSING ALLIANCES



EVERYONE CAN CODE

PROGRAMMING FOR THE FUTURE



This is a stone.



This is a stone.

When choosing MINDFIELD DIGITAL™ and our DBMD™ Program for your development services, you can be sure you will receive an app that will save you money and resources using the most advanced design and interface concepts.

We follow an Application Development Cycle where every step is carried out to maximum perfection. Our application developers are experienced and knowledgeable, and are skilled at delivering top high tech Apps.

Our team is constantly looking for promising partners in order to improve our quality, broaden our experience and create a global range of Apps with the most impressive conceptual designs, 3D Graphics and Sound FX.



MindfieldDigital



READ over **9000+** digital magazines
anytime, anywhere

Download and Read it
on **Magzter**



From your Apple iPad please go to
App Store and search for Magzter



From your Apple iPad please go to
App Store and search for Magzter

<https://www.magzter.com>

 **MAGZTER**



CleanMyMac 3

All the tools to speed up your Mac, in one app.

[Learn more >](#)

EVERYONE CAN CODE:
PROGRAMMING FOR
THE FUTURE

52



SUMMARY

AMAZON OR
WALMART?
SOME RETAILERS
ARE CHOOSING
ALLIANCES



18

JUSTICE LEAGUE:
DC LOOKS BEYOND
BATMAN & SUPERMAN



42

CLOSE NEW EARTH-SIZE
WORLD, WHERE YEAR
LASTS UNDER 10 DAYS



128

CALIFORNIA MAY LIMIT LIABILITY OF SELF-DRIVING CARMAKERS	08
X DAYS WITH iPhone X: CHANGING HABITS TO EMBRACE THE FUTURE	26
TWITTER, BUZZFEED JOIN FOR BREEZY ONLINE MORNING SHOW	34
IBM SAYS IT'S REACHED MILESTONE IN QUANTUM COMPUTING	50
QUALCOMM REJECTS BROADCOM'S \$103 BILLION OFFER	68
MISSOURI ATTORNEY GENERAL INVESTIGATING GOOGLE	74
RISE IN TEEN SUICIDE, SOCIAL MEDIA COINCIDE; IS THERE LINK?	78
NEW INTERNET TV SERVICE HAS \$16 MONTHLY TAB AND NO SPORTS	86
BOX OFFICE TOP 20: 'THOR: RAGNAROK' REPEATS AT NO. 1	110
A QUICK WORD WITH EZRA MILLER ON BECOMING 'THE FLASH'	120
'LORD OF THE RINGS' TV SERIES COMING TO AMAZON PRIME	126
SPACE DELIVERY: ASTRONAUTS GET ICE CREAM, MAKE-OWN PIZZAS	130
MICHIGAN CENTER PROVIDES SPACE TO TEACH SCIENCE, TECHNOLOGY	134
US REGULATORS APPROVE FIRST DIGITAL PILL TO TRACK PATIENTS	140
WATER WIZARDS: DUTCH FLOOD EXPERTISE IS BIG EXPORT BUSINESS	156
UBER SEALS MULTIBILLION-DOLLAR INVESTMENT FROM SOFTBANK	162
EXTRADITION HEARING FOR RUSSIAN CYBERCRIME SUSPECT POSTPONED	166



TOP 10 APPS	90
iTUNES REVIEW	94
TOP 10 SONGS	146
TOP 10 ALBUMS	148
TOP 10 MUSIC VIDEOS	150
TOP 10 TV SHOWS	152
TOP 10 BOOKS	154





CALIFORNIA MAY LIMIT LIABILITY OF SELF-DRIVING CARMAKERS

California regulators are embracing a General Motors recommendation that would help makers of self-driving cars avoid paying for accidents and other trouble, raising concerns that the proposal will put an unfair burden on vehicle owners.

If adopted, the regulations drafted by the California Department of Motor Vehicles would protect these carmakers from lawsuits in cases where vehicles haven't been maintained according to manufacturer specifications.





That could open a loophole for automakers to skirt responsibility for accidents, injuries and deaths caused by defective autonomous vehicles, said Armand Feliciano, vice president for the Association of California Insurance Companies. For instance, manufacturers might avoid liability if the tires on self-driving cars are slightly underinflated or even if the oil hasn't been changed as regularly as manufacturers suggest, he said.

"When is the last time you followed everything that is listed in your car manual?" Feliciano said.

The California DMV declined to comment on its proposed regulations because they're still being finalized.

PAVING THE WAY FOR AUTONOMOUS CARS

Determining liability for self-driving cars is just one of the many hurdles that still must be addressed as dozens of automakers and technology companies expand their tests of robotic vehicles cruising public roads scattered across the U.S. Some of these companies are hoping to deploy their self-driving vehicles in ride-hailing services and eventually sell them to consumers within the next few years.

As biggest testing ground for self-driving cars, California is being viewed as a bellwether for how other states might sculpt their regulations down the road.

The section addressing the limits of automakers' liability adopts much of the wording proposed in an April 24 letter to the DMV from Paul

Hemmersbaugh, formerly chief counsel for the National Highway Traffic Safety Administration and now chief counsel for the General Motors division overseeing self-driving cars.

Consumer Watchdog, an activist group frequently critical of business interests, believes Hemmersbaugh plied the connections he made at the California DMV while working at the National Highway Traffic Safety Administration to insert the clause that could make it easier for self-driving carmakers to avoid liability.

“It is the result of the ongoing and troubling federal revolving door between the National Highway Traffic Safety Administration and the auto industry,” Consumer Watchdog officials wrote in a letter sent Tuesday to the DMV and the head of the transportation overseeing the agency.

“MORAL HAZARD”

Under current law, automakers can still be held liable for faulty equipment or other flaws in vehicles that require a human driver, even if the owners haven’t followed all the maintenance instructions.

That would change if the DMV’s proposed regulations go on the books as is, warned the Consumer Attorneys of California, a professional association of trial lawyers.

“This language creates a dangerous ‘moral hazard’ where manufacturers are encouraged to create unreasonable or impossible maintenance specifications to shift the burden onto (self-driving car) consumers or the public at large for





Image: Alexander Koerner

technological failures,” the trade group wrote in its Oct. 25 comments to the DMV.

GM spokeswoman Laura Toole lauded the “transparency” of the DMV’s process. Dozens of parties also submitted comments and recommendations, leaving it to the DMV’s staff to decide which to include in the agency’s proposed rules, she said.

RULES FOR ROBOTS

In his April 24 letter, Hemmersbaugh linked his recommendations to concerns that self-driving carmakers might be held responsible for all vehicle problems “without taking into account the acts of intervening parties and other factors that contributed to an incident.”

Self-driving cars are being touted as safer alternative to vehicles operated by humans who get drunk or distracted. But accidents are still bound to happen, and some are likely to be caused by equipment defects, said Jacqueline Serna, legislative attorney for the Consumer Attorneys of California. And when that happens, she said, it should be left to the courts to draw the lines of liability.

“The courts have dealt with new technology in the past and they are equipped to do it again,” Serna said.

The issue could end up in court if the DMV doesn’t revise the current wording of its regulations. Consumer Watchdog says it will sue if the current regulations are approved and insurance trade groups say they may take legal action, too.







AOL Computer Cleanup

Clean it up. Speed it up. Lock it up.

Free your computer from the junk dirtying up its hard drive with AOL Computer Cleanup, the one-click fix that helps clean and speed up your slow PC.

- Remove traces of internet browsing history and encrypt sensitive files
- Get rid of the useless junk left behind when installing and uninstalling programs
- Back up and recover accidentally deleted files
- Analyze system settings and identify ways to improve security

Sign up now, and then sit back, relax and let our 24 powerful PC tools clean, speed up and optimize your PC automatically.

TRY IT FREE FOR 30 DAYS

Annual subscription for just \$39.95 per year begins upon registration.
To avoid being charged the recurring subscription fee,
simply cancel before the free trial period ends.

MacX Video Converter Pro

Video Conversion Has Never Been So Fast & Easy

[Learn More >>](#)



- **Convert** 4K/HD/SD Videos & Audios
MKV, MOV, MP4, MP3, etc in fastest speed
- **Download** YouTube Videos and Music
Facebook, Vimeo, Vevo and 300+ sites
- **Convert** Videos for Media Devices
Playback on iPhone, iPad, Android and more
- **Edit** Videos and Record Screen
Add subtitle and make photo slideshow

Exclusive
Was \$45.95 **\$29.95**



Buy Now



Buy Now



30 Day Money Back



Free Lifetime Upgrade



7 x 24 Tech Support





AMAZON OR WALMART? SOME RETAILERS ARE CHOOSING ALLIANCES

Store chains feeling the upheaval in retail are making strategic alliances — and that can mean picking sides.

Kohl's shoppers can find Amazon devices at some stores, and return items they bought from the online retailer. Nike has made some of its sneakers available through Amazon. The owner of Sears is selling Kenmore-branded appliances on Amazon in some markets. And Best Buy is teaming up with Amazon for voice shopping.

Meanwhile, Walmart, which has the most store locations, is assembling a coalition of its own: buying smaller online brands and becoming the highest-profile partner to Google in voice shopping. And the discount chain that touts low prices announced a web partnership Monday with high-end department store Lord & Taylor.

“When you are in an historic uncharted chaotic situation, you often see these strange bedfellows,” said Joel Bines, co-head of AlixPartners’ retail practice and a managing director at the firm.

Since the beginning of the year, several retailers have filed for bankruptcy protection, including well-known names like Toys R Us. And retailers have announced thousands of store closings, with more expected. Analysts say some brands realize they might not succeed alone.

“You have to be challenging accepted norms. So you might find partners that you normally wouldn’t have considered,” said Wendy Liebmann, CEO of WSL Strategic Retail. “This has exploded because of the urgency to change. You look at retailers who are closing or struggling.”

So as Amazon moves even further into fashion, home electronics and grocery stores, and cements shopper loyalty with its \$99-a-year Prime membership, stores are developing partnerships with the online retailer to increase customer traffic or expand their offerings online.

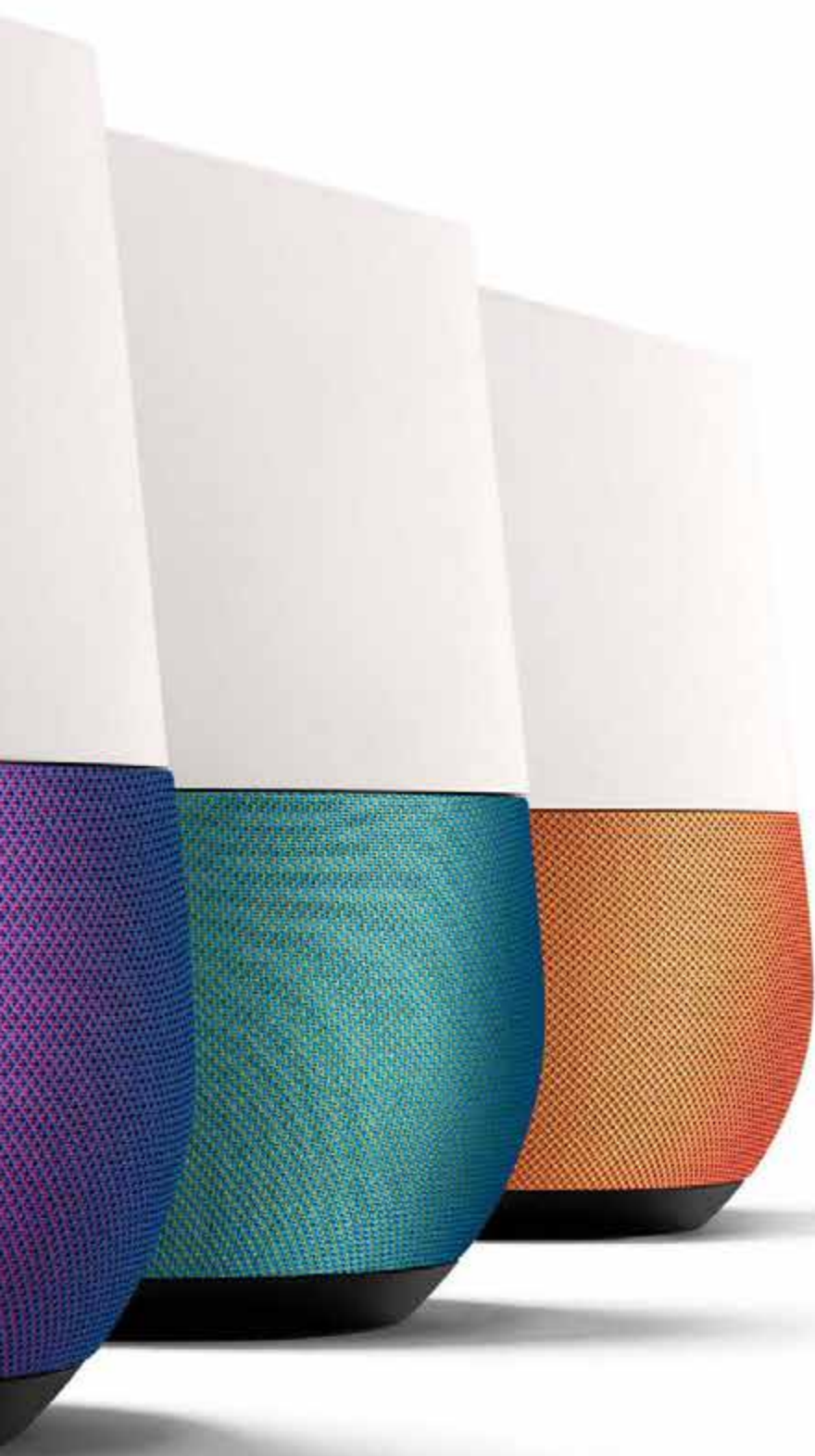
At the participating Kohl’s stores, shoppers will find 1,000-square-foot Amazon areas that sell Echos, Fire tablets and other gadgets. People can also arrange to have an Amazon employee visit their home and install a device or recommend smart home products to buy. And some stores pack and ship eligible Amazon return items for free. Kohl’s hopes the arrangement brings in shoppers who might pick up clothes or home items.

Analysts say other department stores, facing the same kind of issues, could follow.









From its base with 4,700 U.S. stores, Walmart is lining up other partners. In voice shopping, it hooked up with Google, which has signed up other chains such as Target and Home Depot to fight the dominance of Amazon's Alexa-powered Echo devices.

Lord & Taylor's president Liz Rodbell told The Associated Press the arrangement with Walmart allows the chain to attract new customers who already are buying higher-end products on **Walmart.com**. She called the partnership "a pivotal moment" for the retailer. It comes after the chain's parent company announced last month it was selling its New York flagship building to WeWork and leasing back a portion of the space.

Neither company would say the financial details of the arrangement.

Denise Incandela, head of fashion at Walmart's U.S. e-commerce division, says it's focusing on specialized shopping experiences, starting with fashion. Since the \$3 billion-plus acquisition of **Jet.com** last year, Walmart has bought several online brands like Bonobos and ModCloth.

Analysts say Walmart is developing its own higher-end online mall as a way to counter Amazon's dominance. Bines said it's a good strategy, since **Walmart.com** could attract "an entirely different demographic" from the chain's physical stores.

Walmart store customers have a median household income of about \$48,000, below the \$56,000 for **walmart.com** customers, according to Craig Johnson, president of the retail consulting group Customer Growth Partners. **Amazon.com** shoppers have a median income of \$85,000, Johnson estimates.

Liebmann says the bigger question is whether there would be any resistance from Lord & Taylor shoppers. Bonobos and ModCloth fans complained vociferously on social media when reports were swirling about Walmart's move to buy the brands. "It has to be presented well," Liebmann said.

Overall, Bines expects Amazon and Walmart to announce more partnerships. "In the next two or three years, companies will chose sides," he said. "But after that, the lines will be blurred."







A close-up photograph of a hand holding a white iPhone X. The hand has dark red nail polish. The phone is held at an angle, showing its back and the bottom edge. The background is a soft, out-of-focus light grey.

X DAYS WITH iPhone X: CHANGING HABITS TO EMBRACE THE FUTURE

The future of the smartphone, as Apple calls its new iPhone X, means breaking old habits.

With no more home button, this mostly means replacing presses with swipes and the fingerprint ID sensor with facial recognition.

In my 10 days with the iPhone X, I tried to fool its Face ID feature. I bought three sandwiches, popcorn and a ruler with Apple Pay. I read an e-book and listened to podcasts. I ran a marathon. I followed that with a Netflix marathon on the couch.

I'm still adjusting. Most of the changes aren't necessarily better — just different, forced upon me to accommodate a larger display and other forward-looking gizmos.

SWIPE, SWIPE, SWIPE

Fortunately, the new gestures are mostly simple. Instead of pressing the home button to return to the home screen, you swipe up from the bottom. Swiping up used to get you settings in the Control Center; now you swipe down from the top right instead.

I knew I'd mastered it when I thought an old iPhone was defective because I couldn't swipe. Use the home button — duh!

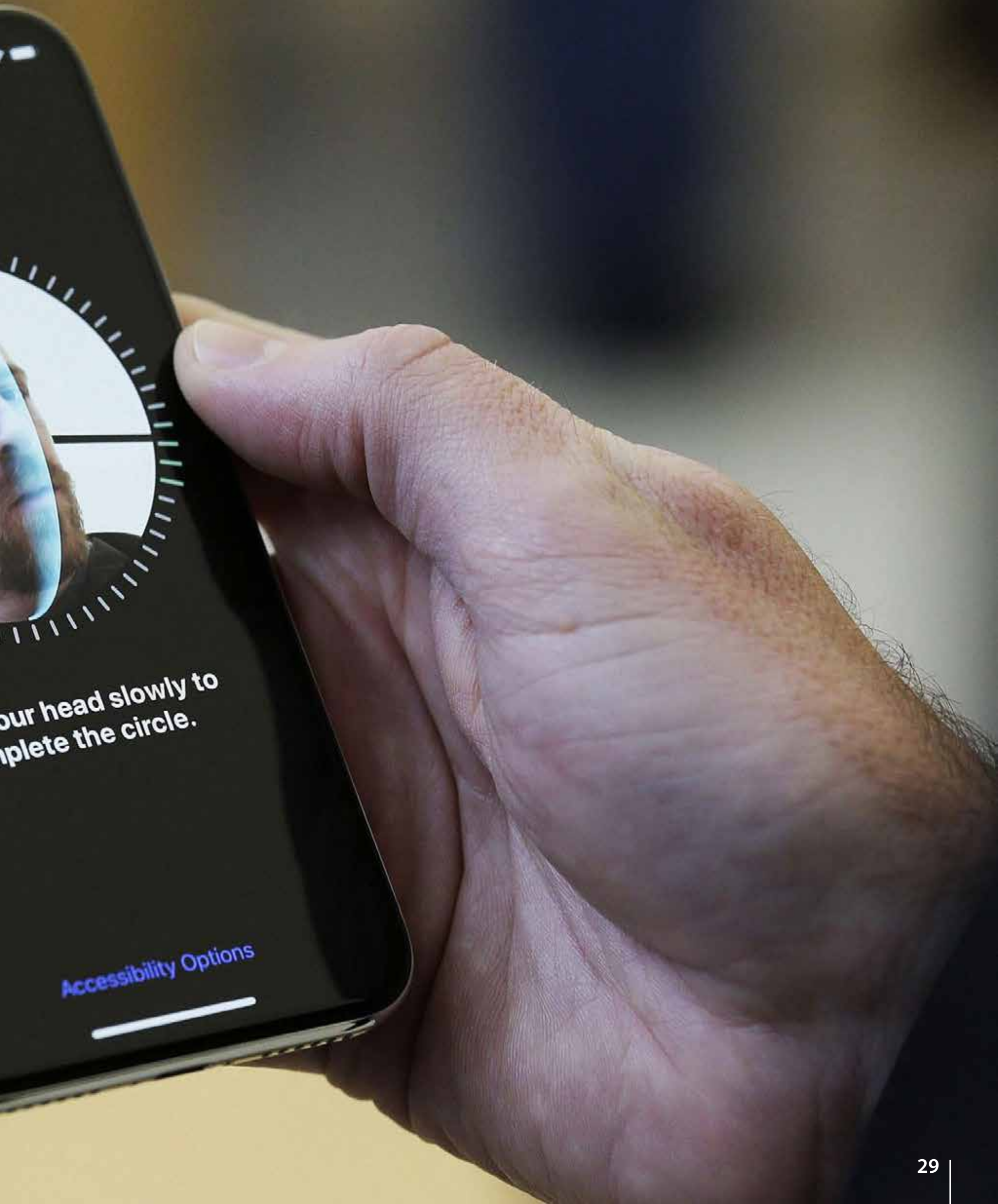
It can still be confusing while watching video horizontally, as the swiping edge moves to the new bottom. I'm used to the home button on the right — and tried to swipe there. It's also more convoluted to close unresponsive apps with a combination of swipe, hold, press and tap; good thing I don't need to do this often.

FACE ID

Facial recognition works fairly well for unlocking the phone, even if you're sweating and shaking during a run. It also works in the dark — if you align your face just right. I'm nearsighted, so I hold my phone close when checking in bed without glasses. I have to remember to hold the phone several inches back for Face ID. And I have to avoid squinting; Apple says eyes need to be fully open.

By default, full notifications don't appear on the lock screen. You might see that your cousin had sent a message, but Face ID needs to recognize you for the message to appear. That means lifting your phone from the desk or tilting your head (at least without changing settings).





But if you're already looking at the phone, it's much faster to log into apps that used to require a fingerprint. Face ID automatically kicks in; no need to move your thumb. And when buying things with Apple Pay, you verify a transaction before tapping the phone at a payment reader; there's no waiting for your fingerprint.

ABOUT THAT SCREEN

The iPhone X screen has about the same surface area as the iPhone 8 Plus in a body that's almost as narrow as the regular iPhone 8. But video isn't as large as on the Plus. Video tends to be optimized for the dimensions of the iPhone 8 and 8 Plus (and older models), so there's wasted black space on the X's wider display.

Where the X screen improves most is in sporting OLED technology, which has no backlight — so black is truly black rather than simply dark. While Samsung made the iPhone X's OLED display, DisplayMate, a tester of screens, credits Apple with additional calibration to edge out Samsung's own Note 8 as the best smartphone display.

What still takes getting used to is a small, rectangular notch at the top edge for the camera and sensors. It's like a sun visor that flips down, occasionally blocking your view. Fortunately, it's been noticeable in only a handful of apps — and should get better once apps design for it.





OLED technology





HOLD ON

The phone feels more comfortable than the 8 Plus, but also more delicate. I felt this even before SquareTrade, a seller of protection plans, declared it the most breakable iPhone yet. Part of that feeling comes from its \$1,000 price tag, \$300 more than the iPhone 8.

Apple says the glass on both the X and the 8 is stronger than before. But accidents happen. If you haven't considered a service plan such as AppleCare before, now is the time. Otherwise, screen replacement will cost \$279, compared with \$169 for the 8 Plus.

BEEN THERE, DONE THAT?

Last week, Samsung released a television ad poking fun at the iPhone and features that previously appeared on Samsung Galaxy phones. Samsung phones, for instance, have had OLED for years, though early versions weren't that great.

From Apple's standpoint, what makes the iPhone X its roadmap for the next decade isn't any single feature or technology, but a combination of hardware and software. The front sensors, for instance, enable augmented-reality applications, including animated emojis that mirror your facial muscle movements. I sent friends and family a few creepy ones of me animated as poop.

Taken together, the additions point to where Apple is heading. I wouldn't be surprised if Apple gets rid of the home button and the fingerprint sensor on all iPhone models one day, much the way it consigned floppy disk drives to history.

And that means accepting change, like it or not.

TWITTER, BUZZFEED JOIN FOR BREEZY ONLINE MORNING SHOW

Twitter and BuzzFeed initially planned to start their new morning show, “AM to DM,” each weekday at 8 a.m. Then they considered their likely audience, and scheduled it for 10.

Now there’s time to wake up leisurely, have coffee and fire up your smartphone. Hosts Isaac Fitzgerald and Saeed Jones, who like four-fifths of the show’s audience are under age 35, don’t have to rise at an ungodly hour. It’s all so civilized.

Launched quietly in late September from a studio in BuzzFeed’s Manhattan office, “AM to DM” is a breezy mix of news and pop culture. Viewers can click on Twitter and watch the stream live, or catch highlights later in the day.





"It's been kind of fun," said Shani Hilton, head of U.S. news at BuzzFeed. "It feels like the early days of BuzzFeed where we were experimenting all the time and making things out of bubble gum and glue."

"AM to DM" (DM standing for 'direct message') neatly fits the ambitions of two young media companies. Twitter has moved aggressively into video during the past year, streaming more than 800 events during the summer months. BuzzFeed wants to make money with its news operation and be top of mind with social media companies experimenting with video.

After working with BuzzFeed on an election night special, Twitter suggested the morning show. Rather than search for potential hosts with a television background, they found their team in BuzzFeed's newsroom. Fitzgerald, 34, is a former firefighter who is BuzzFeed's books editor, and had made several appearances on the "Today" show to talk about the literary scene. Jones, 31, is a published poet who was executive editor of culture at the web site. They make up with energy what they lack in polish.

"I never in my life thought there would be a place for a gay black man to be fully involved in a morning show," Jones said.

"AM to DM" talks about the news more than it reports it; Hilton said producers work under the assumption viewers have already checked out news headlines. The show relies heavily on the collaborating companies.

Opening Tuesday's show with the story about Alabama U. S. Senate candidate Roy Moore and molestation accusations, the hosts review what has been written about him on Twitter.









They conducted Skype interviews with BuzzFeed White House correspondent Adrian Carrasquillo to preview what President Donald Trump will face now that he's returned from Asia, and national security correspondent Thomas Frank about the investigation into Russian actions during last year's presidential campaign.

"Will there ever be a point where there will be a smoking gun, or will it be an incremental creep?" Jones asked Frank.

Frank replied: "The answer is, nobody knows."

As Jones conducts one interview Fitzgerald stands beside him, typing on his smartphone.

The show's regular "fire tweets" segment simply involves the hosts kibitzing over random remarks made on Twitter. They laughed at one person who wrote, "no one actually tells you that an adult job is deleting 80 percent of your emails and ignoring the rest."

Melissa Joan Hart stopped by for a celebrity interview. She answered questions about the differences between acting and directing, was given a few minutes to address a social cause she's promoting and played along with a quiz that, among other things, revealed she was an "I Love Lucy" fan. The show has had a mix of politicians and celebrities during its first two months, including Connecticut Sen. Chris Murphy, Ohio Gov. John Kasich, singer Audra McDonald and actress Nicole Richie.

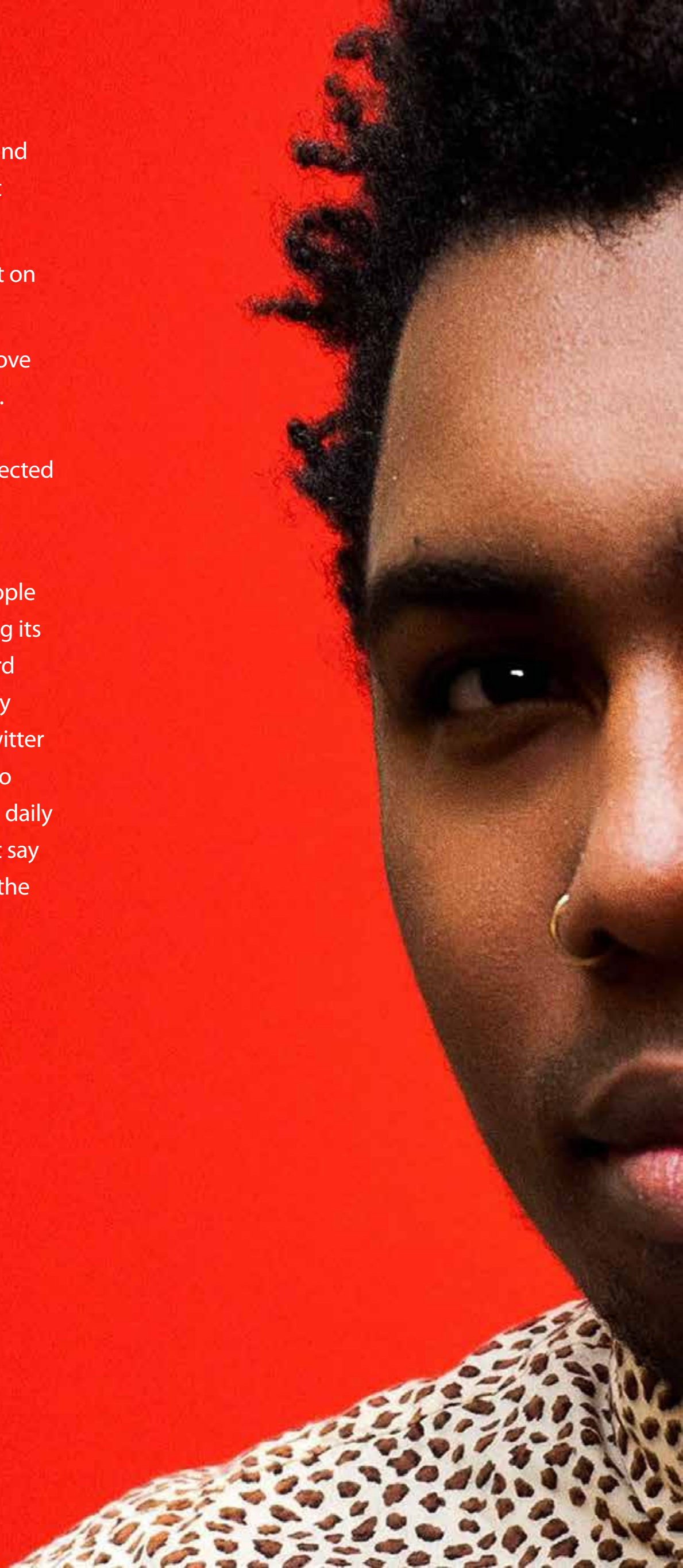
"It was fun," said CBS "S.W.A.T." actress Lina Esco after her recent appearance. "Chill. I felt like I was hanging out at someone's living room."

Tuesday's show also featured a BuzzFeed correspondent giving relationship advice and an "NFL fashion ambassador" talking about "Dungeons and Dragons" with Fitzgerald.

The content of "AM to DM" is much like that on Twitter, Fitzgerald said.

"Twitter is not one thing and that's what I love about it," he said. "People are not one thing. People are complex and the complexity is reflected in the platform and I hope it's reflected on the show."

It's hard to tell what kind of an impact it is having. Twitter said at least one million people checked out some part of each show during its first week, but that's deceptive; the standard used by the television industry is how many people watch in an average minute and Twitter won't provide that figure. The company also says "AM to DM" is "one of the most-viewed daily shows" live-streaming on Twitter, but won't say what show has the most viewers and how the new morning show compares.









JUSTICE LEAGUE: DC LOOKS BEYOND BATMAN & SUPERMAN

Peace never reigns in the pages of DC Comics. There's always a world to be saving, a cataclysm to avert. The making of the DC superhero team-up film "Justice League" was hardly any more tranquil.

Made in the wake of the disappointment surrounding its predecessor, "Batman v Superman," and the critically-panned "Suicide Squad," "Justice League" was, like a jetliner given new wings in midair, retooled on the fly. Warner Bros. sought to lighten the tone of Zack Snyder's grandiose and muscle-bound DC universe — a much-publicized pivot that came just as tragedy was striking.

Snyder, the "300" filmmaker, had overseen this latest series of DC movies starting with "Man of Steel," but he stepped down after "Justice League" had been shot following the death of his daughter. Joss Whedon, the "Avengers" director known for snappy dialogue who had already been helping to punch up the script, was brought in to steer the film through post-production and two months of reshoots. (He's credited as co-writer.) Writer Geoff Johns and

producer Jon Berg had already been brought in to brighten “Justice League” and overhaul the wider DC slate with a more optimistic tone.

But that’s not been all. Ben Affleck, who stars as Batman, withdrew from directing a stand-alone Batman film, while also combating criticism over his behavior with women in the past. Whedon, himself, was called a hypocrite for espousing feminist ideals by his ex-wife, Kai Cole. Jason Momoa had to apologize for a 2011 joke about rape and “Game of Thrones.” And just weeks before release, Warner Bros. severed ties with one of the film’s chief financiers, Brett Ratner’s RatPac-Dune company, after sexual assault allegations were leveled against Ratner. Gal Gadot, who plays Wonder Woman, has reportedly insisted Ratner have no connection with any future Wonder Woman film.

“Justice League” is the kind of production that, one suspects, its makers will celebrate the release of with a stiff drink.

“I’ve probably had a stiff drink along the way,” producer Charles Roven says, chuckling. “It’s been different in the sense that we’ve had some sadness along the happy-joy of making the movie. But for the most part it’s been an incredibly positive experience.”

Now, Warner Bros. and DC are hoping that the finished “Justice League,” which opens Friday, doesn’t show any Frankenstein-like scars from its tumultuous creation.

“The goal is to make sure when you’re watching the movie, it all feels cohesive,” says Roven, the veteran producer of “The Dark Knight” trilogy. “That imprint that Joss had, some aspect of it is going to come out in the direction, but the





actors are already pretty much down the road on their arcs. Let's just say 80, 85 percent of the movie is what was originally shot. There's only so much you can do with other 15, 20 percent of the movie."

In interviews, Roven and cast members pledged their loyalty to Snyder and his vision for the franchise, one they say incorporated a changing tone before Whedon's involvement. (Neither filmmaker was made available for interview. Each has stayed silent publicly since Snyder's departure.)

"Zack from the time that I first met with him said, 'Look, Batman makes the DC world dark. The DC world has to be created as something dark,'" says Ezra Miller, who plays Barry Allen aka the Flash). "He said what's great now is that the League gets to bring Batman out of this darkness. That was always Zack's vision. That was the intention from the beginning."

The film, Miller says, has "a wonderful collision of tone" that he considers "a testament to both the strength of Zack's vision and the generosity of Joss's commitment."

It's also a turning point in the larger DC cinematic world. "Justice League" finds Affleck's Bruce Wayne, in the wake of Superman's apparent death, gathering together the League to fight a new enemy. That means pushing not just Wonder Woman to the fore, but also Miller's Flash, Momoa's Aquaman and Ray Fisher's Cyborg.

"It was very clear that the tone of the movie was different than 'Batman v Superman,'" says Gadot. "Henry (Cavill), Ben and I had a wonderful addition with Ezra and Jason and Ray (that) just stirred everything up."





Gadot and “Wonder Woman” are a big reason for optimism in the franchise, following its critically acclaimed, zeitgeist-grabbing \$412.6 million box office success domestically. Though the epicenter of DC Comcs has always revolved around Batman and Superman, that’s starting to change.

Matt Reeves has taken over the Batman movie, but he’s starting fresh on the screenplay, making a release date several years off. That leaves open the possibility of further changes, even potentially Affleck’s casting. “From everything I know, he’s going to play that Batman,” said Roven. “They’re retooling the script, so I can’t really say anything for certain.”

The Superman sequel “Man of Steel 2” also isn’t coming anytime soon, if at all. Roven says there’s no script but “various story ideas” are being kicked around.

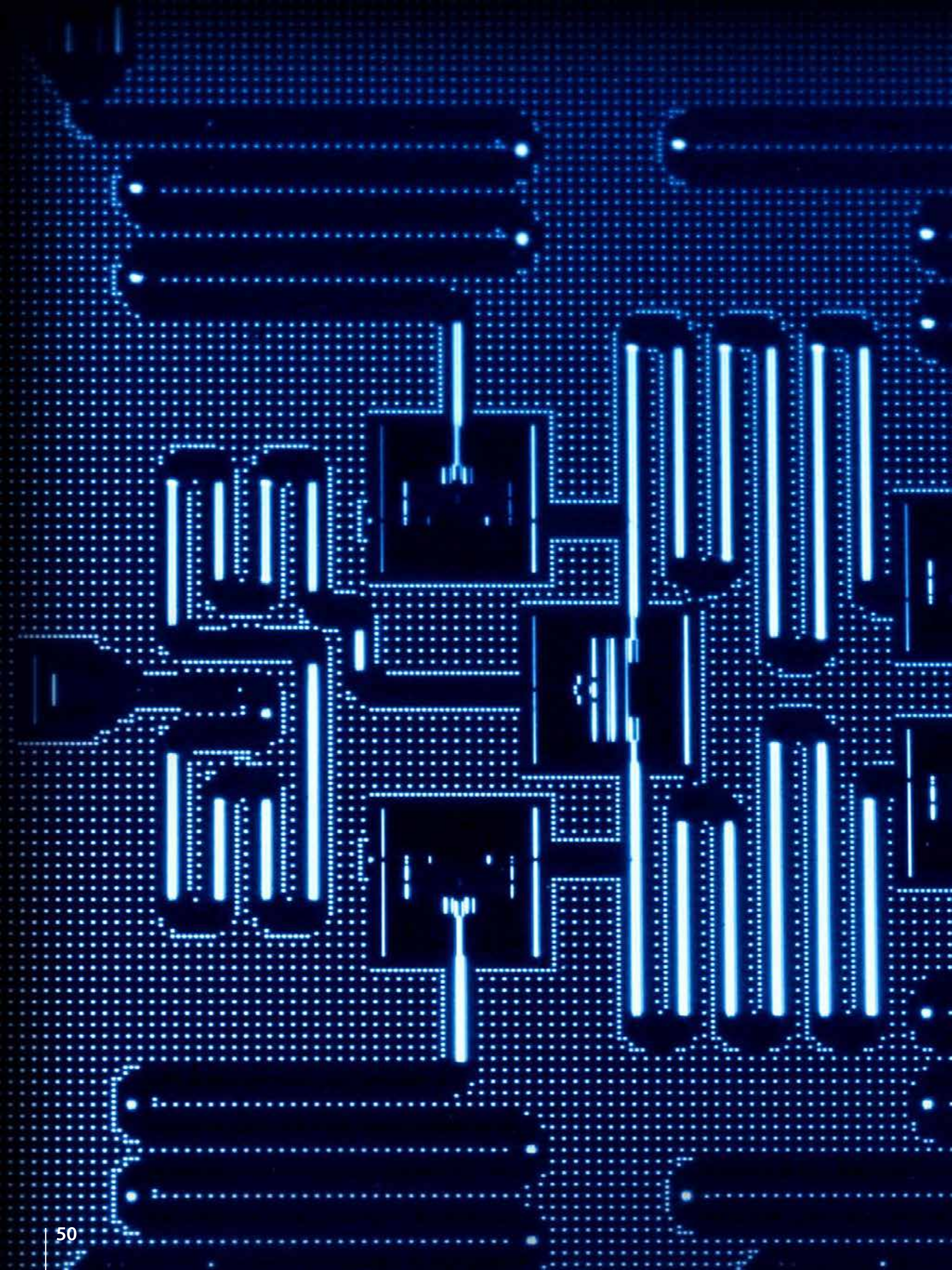
On the front burner, however, is “Aquaman,” scheduled for release in December 2018, a Wonder Woman sequel due in 2019 (with director Patty Jenkins returning) and a Cyborg movie. Whedon is also prepping a Batgirl movie.

“Justice League,” a team-up movie, will be followed by solo efforts.

“One of the things that’s really important to us with all of these DC movies is making sure that while they make sense, one from the other — because they’re in a certain way linked — we also want to make sure that the audience is hopefully excited by the fact that you don’t know exactly where you’re going to go.”









IBM SAYS IT'S REACHED MILESTONE IN QUANTUM COMPUTING

IBM has announced a milestone in its race against Google and other big tech firms to build a powerful quantum computer.

Dario Gil, who leads IBM's quantum computing and artificial intelligence research division, said last week that the company's scientists have successfully built and measured a processor prototype with 50 quantum bits, known as qubits.

Gil says it's the first time any company has built a quantum computer at this scale.

Quantum computing, a technology that's still in its early phases, uses the quirks of quantum physics to perform calculations at far higher speeds than current computers.

Seth Lloyd, an MIT mechanical engineering professor not involved in IBM's research, says it's likely that IBM still has glitches to work out but the 50-qubit announcement is a sign of significant progress.



EVERYONE CAN CODE:

PROGRAMMING FOR
THE FUTURE







English is one of the world's most widely used languages - but code is even more so. That's the verdict of **Apple CEO Tim Cook, who recently told French news outlet *Konbini*:** "If I were a French student and I were 10 years old, I think it would be more important for me to learn coding than English". He described coding as "a language that you can [use to] express yourself to 7 billion people in the world" - and Apple is doing much to further coding knowledge worldwide.

A SWIFT EXPANSION FOR A PROMISING CURRICULUM

In 2014, Apple launched the programming language Swift, which is intended to encourage students across a broad age spectrum to pick up coding. Apple is also chasing this goal through **further rolling out its Everyone Can Code initiative**, whereby this language is formally taught by various colleges and universities around the world. A key part of the scheme is the App Development with Swift Curriculum - an Apple-designed, year-long course intended to teach students coding.

Apple engineers and educators have developed this course, with which students can learn how to program and design apps for Apple's App Store. The course was **first introduced in early 2017**, when associated educational materials were also made freely available on the iBooks Store. In September, **Cook enthused to *Fortune*:** "All this curriculum stuff is free. Anybody can have it that wants it around the world. We've done it in multiple languages".

That's helped pave the way for the expansion in availability of the App Development with Swift

Curriculum - which, though initially supported by six community college systems catering for 500,000 students in the United States, has now jumped overseas as well. In August, **dozens more U.S. community college systems started supporting it** - and, this month, it was announced that over 20 colleges and universities outside the U.S. would also start delivering the course.

The Curriculum will be especially widely implemented at Australia's premier higher education institution, RMIT University, which will offer the Curriculum via RMIT Online and also start teaching a new vocational course on campus. RMIT will also introduce a free summer school course through which secondary students can learn coding fundamentals. Denmark's Mercantec, New Zealand's Unitec Institute of Technology, and the UK's Plymouth University will also offer the Curriculum.

A WORLD THAT IS BECOMING INCREASINGLY RELIANT ON CODE

As the Curriculum's global expansion was announced, Cook said: "We are proud to work with RMIT and many other schools around the world who share our vision of empowering students with tools that can help them change the world." This is no exaggeration; Martin Bean CBE, RMIT's vice chancellor and president, said that the course will help hone "the sort of skills Australians need for the jobs of the future" - and many of those jobs will be both global and in app development.

As technology has grown in use, so has coding - the language through which it communicates.







MacBook Pro


```
let  
then)  
./()try{  
as/</>class  
ar@~as/</>class <::~[if/</try\~%$.  
r*try,~. "~let>([.)=*>/#@~_/while$  
*<var\<)aswhile#/#/~@if.>[.)=*>/~.  
( )={fn=*func=\>@_+==do/:/(/.:var@!  
}try.;/|\@var@o$$const=#@~try/{ }a  
do~\@#{\</>))_|\@#(|)/$_=@/let:[  
*func=\>@_+==do/:/(/.:var)[ ]  
-|-(const(var@~as/</>class@  
@try*@~\as=\> @.>@+ ]a|>@.as*(=  
.[.#'{}./()try{ @##/as<?)*~</> }](as  
*-:/#@do./@var==<)[@.>#+-do)=+@#>{+=@  
if.>[.)=*>/let{ }for{\</>))_|\$#()+/>if  
lass#for|var+try})for=**@var/@!/<var=~  
]/#var@*/for=*.*~let:>@{#class#for#. !-  
#(|)/$_=@/let:[+#\=@.i f]if)[.  
if/</try\~+apple= let!  
##*o|>/@i+=` ~-+  
`-`
```





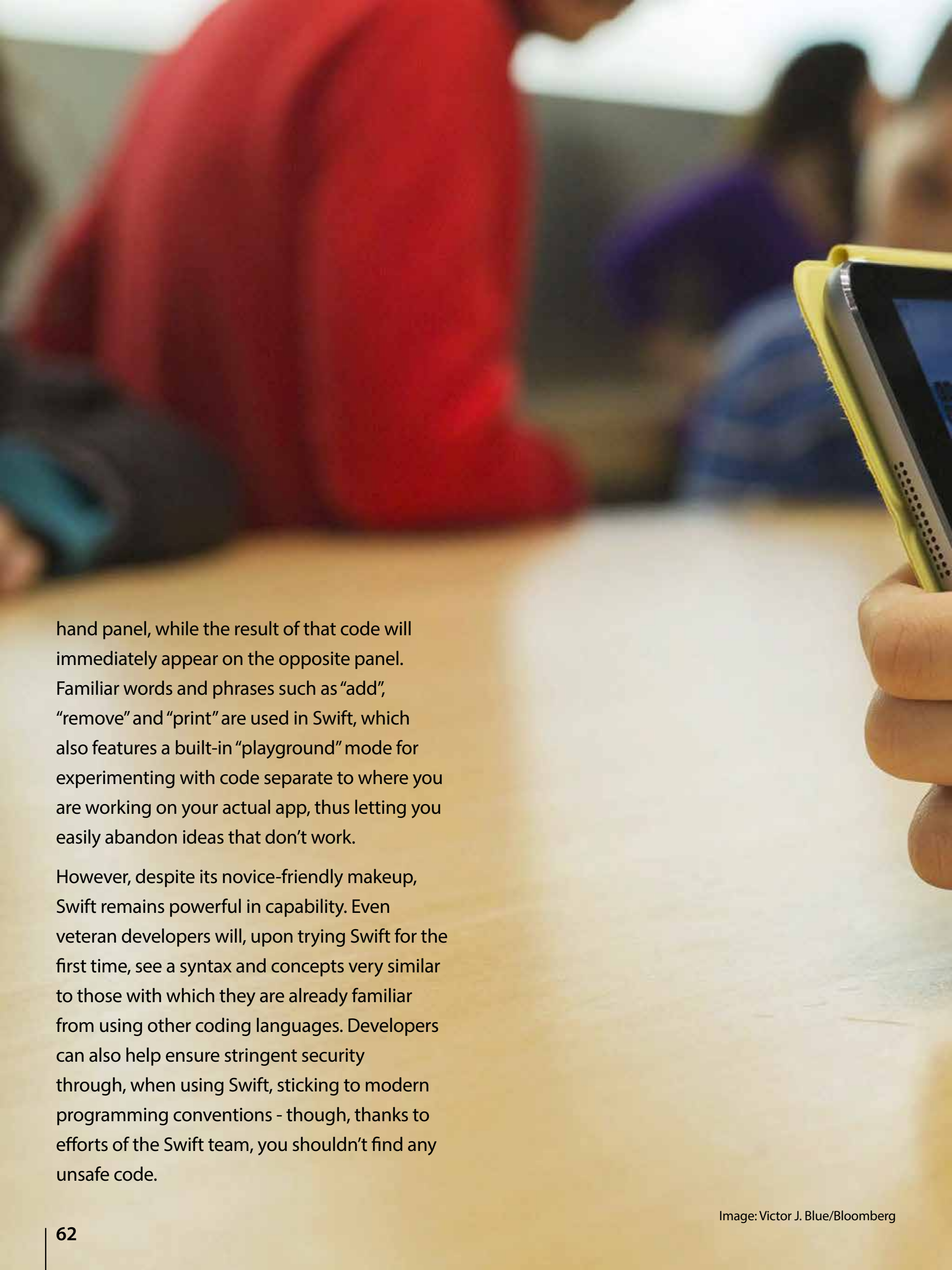

Today, code is behind various day-to-day routines. As **Apple's Everyone Can Code website explains**, code enables you to turn on your car, online order pizza, send a message and share a photo. This sheds light on Cook's rationale for insisting that coding ought to be "required in every public school in the world" and is "not just for the computer scientists. It's for all of us."

The App Store is already a hugely lucrative software marketplace, having paid out more than \$70 billion to developers since its 2008 launch. It is also weekly visited by over 500 million unique customers across 155 countries. Furthermore, **there are currently more developer jobs than developers**, while skill with using Swift is particularly demanded in freelance developers. Pay is good, too; an iOS developer's U.S. average salary begins at roughly \$115,000 a year.

YOU CAN BE SWIFT IN LEARNING HOW TO USE SWIFT

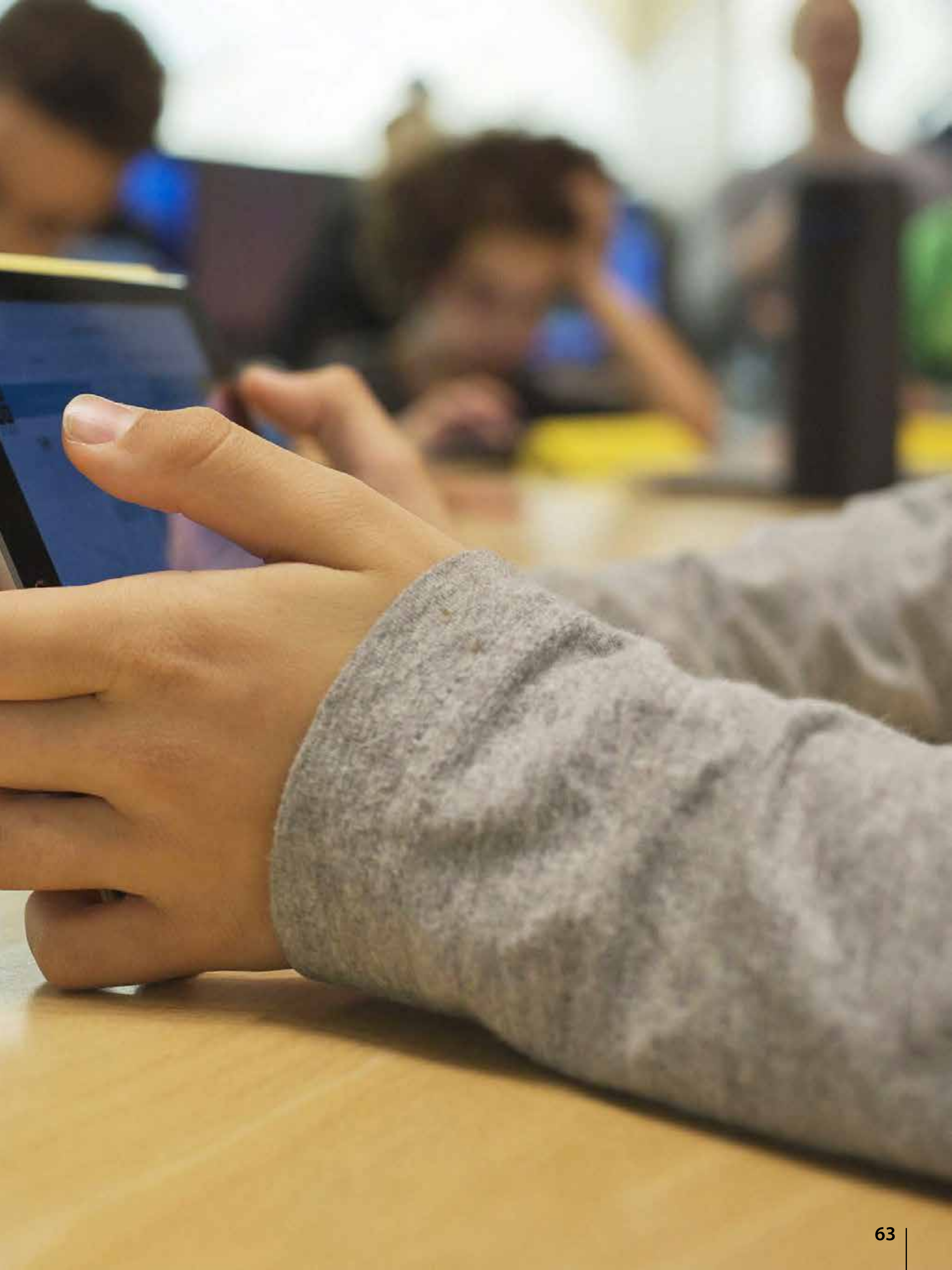
Today, there is a huge choice of programming languages. In fact, they number dozens if not hundreds - and include Python, C, Perl and Java, **which are deemed some of the best of these languages**. However, it is specifically Swift, the Apple-designed programming language, that the App Development with Swift Curriculum will teach. This is apt - as, while coding beginners can thrive with any of many languages, Apple has endeavored to make Swift especially easy to use.

To this end, when the Swift programming software is used, the interface comprises two main panels. Code can be typed into the left-



hand panel, while the result of that code will immediately appear on the opposite panel. Familiar words and phrases such as “add”, “remove” and “print” are used in Swift, which also features a built-in “playground” mode for experimenting with code separate to where you are working on your actual app, thus letting you easily abandon ideas that don’t work.

However, despite its novice-friendly makeup, Swift remains powerful in capability. Even veteran developers will, upon trying Swift for the first time, see a syntax and concepts very similar to those with which they are already familiar from using other coding languages. Developers can also help ensure stringent security through, when using Swift, sticking to modern programming conventions - though, thanks to efforts of the Swift team, you shouldn’t find any unsafe code.



Unit 1

Getting Started with App Development

Welcome to *App Development with Swift*. By learning the fundamentals of the Swift programming language, you'll be on the fast track to developing apps.

This first unit introduces you to the fundamentals of Swift, building apps, iOS, Xcode, and other tools in the Xcode development environment. You also learn a bit about Interface Builder, a visual tool for crafting user interfaces.

After completing this unit, you'll be familiar with everything you need to build your first app.



Swift Lessons

- Introduction to Swift and Playgrounds
- Constants, Variables, and Data Types
- Operators
- Control Flow



SDK Lessons

- Xcode
- Building, Running, and Debugging an App
- Documentation
- Interface Builder Basics

What You'll Build

Light is a simple full-screen flashlight app, where the user toggles its color between black and white.

opment

ndamentals of the
veloping your own

ding modern mobile
environment. You'll
g user interfaces.

ou need to tackle

e user taps the screen to toggle

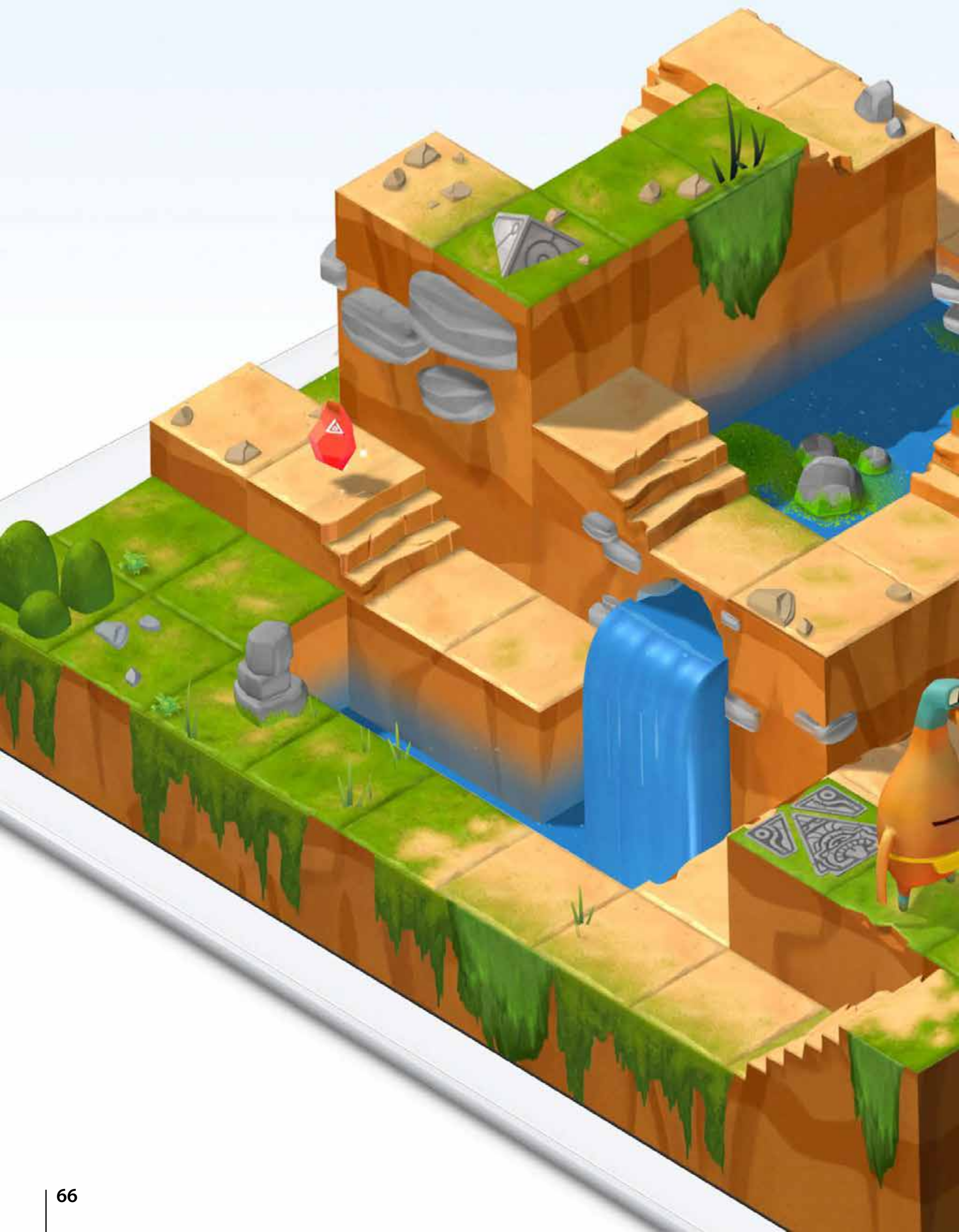
SWIFT: EASY TO PICK UP, LIKELY TO BECOME A MASTER

In many apps and frameworks which are already popular or emerging in popularity, we can discern where many coding jobs of the future will be. It's already become common for banks to let iPhone users quickly log into their bank accounts through using the Touch ID fingerprint recognition sensor. Those same banks could soon spread that functionality to the newer Face ID facial recognition system, especially as the iPhone X continues to sell well.

However, many future coders could also be working on artificial intelligence, which will continue helping the virtual personal assistant Siri to help us. We should also consider the rich potential that augmented reality has probably only just unlocked. Due to the arrival of the augmented reality framework ARKit in this year's iOS 11, the latest version of Apple's mobile operating system is already the world's most widespread augmented reality platform.

Furthermore, the prominence of Swift, likely encouraged by its ease of use and the Everyone Can Code scheme, looks set to grow further over the next few years. Tenisha Fernando, a fourth year student at RMIT, has remarked that Swift "is used by developers to create some of the world's best apps, and it would be great to join them in sharing my own ideas."

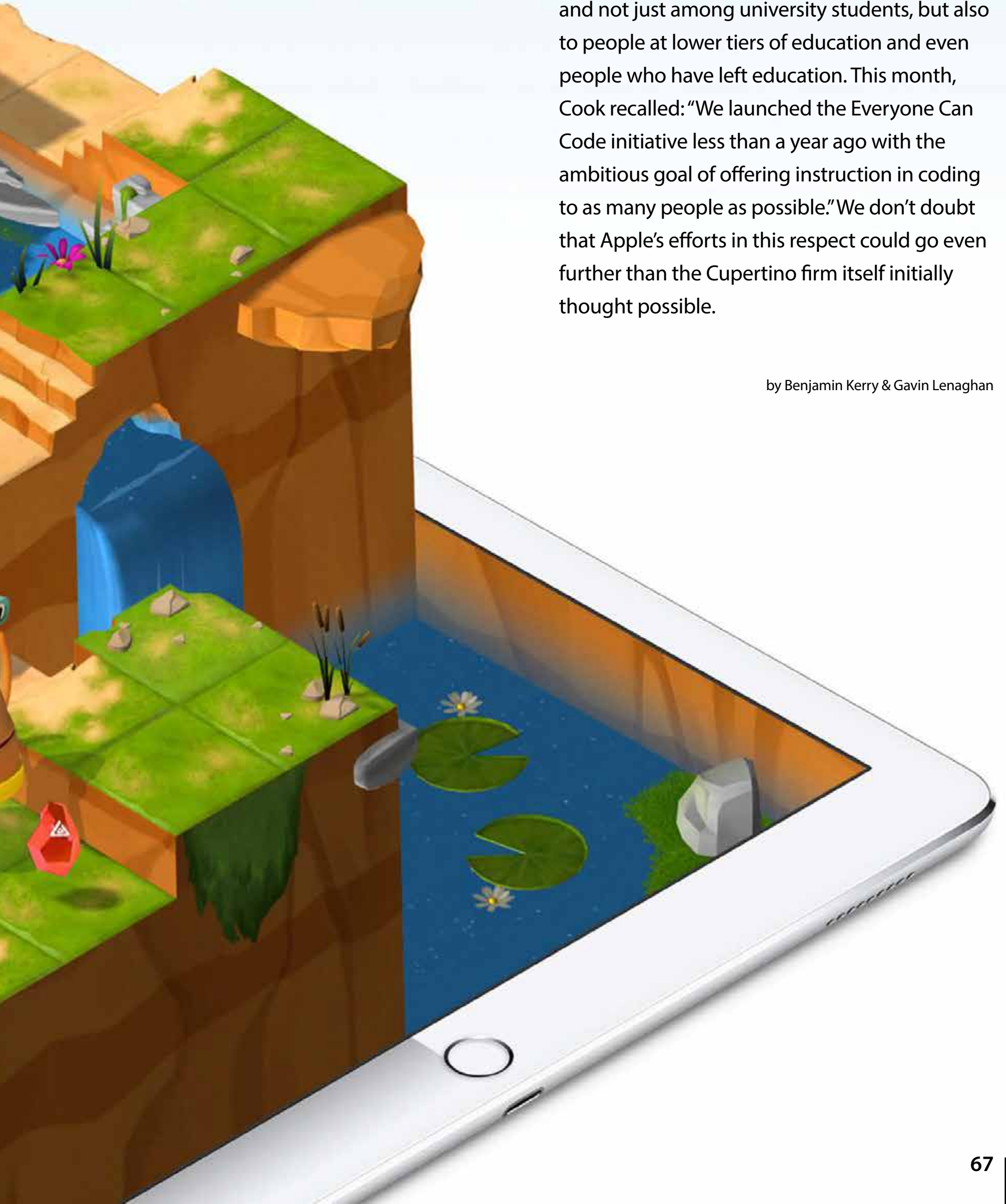
Therefore, it's unsurprising that, referring to the App Development with Swift Curriculum, he has expressed excitement about "the opportunities it could open for my future."




A BRIGHT FUTURE IS BECKONED BY SWIFT

Knowhow about Swift should continue to grow - and not just among university students, but also to people at lower tiers of education and even people who have left education. This month, Cook recalled: "We launched the Everyone Can Code initiative less than a year ago with the ambitious goal of offering instruction in coding to as many people as possible." We don't doubt that Apple's efforts in this respect could go even further than the Cupertino firm itself initially thought possible.

by Benjamin Kerry & Gavin Lenaghan







QUALCOMM REJECTS BROADCOM'S \$103 BILLION OFFER

Qualcomm rejected an unsolicited, \$103 billion offer from Broadcom, saying that the proposal is significantly undervalued and that a tie-up between the massive chipmakers would face substantial regulatory resistance.

Qualcomm said Monday that it's in a unique position to grow on its own.

"We are highly confident that the strategy (CEO Steve Mollenkopf) and his team are executing on provides far superior value to Qualcomm shareholders than the proposed offer," said Tom Horton, Qualcomm director.

Broadcom's bid last week represented a 28 percent premium over the closing price of Qualcomm shares on November 2, but analysts were expecting Qualcomm to reject the \$70-per-share bid.



BROADCO

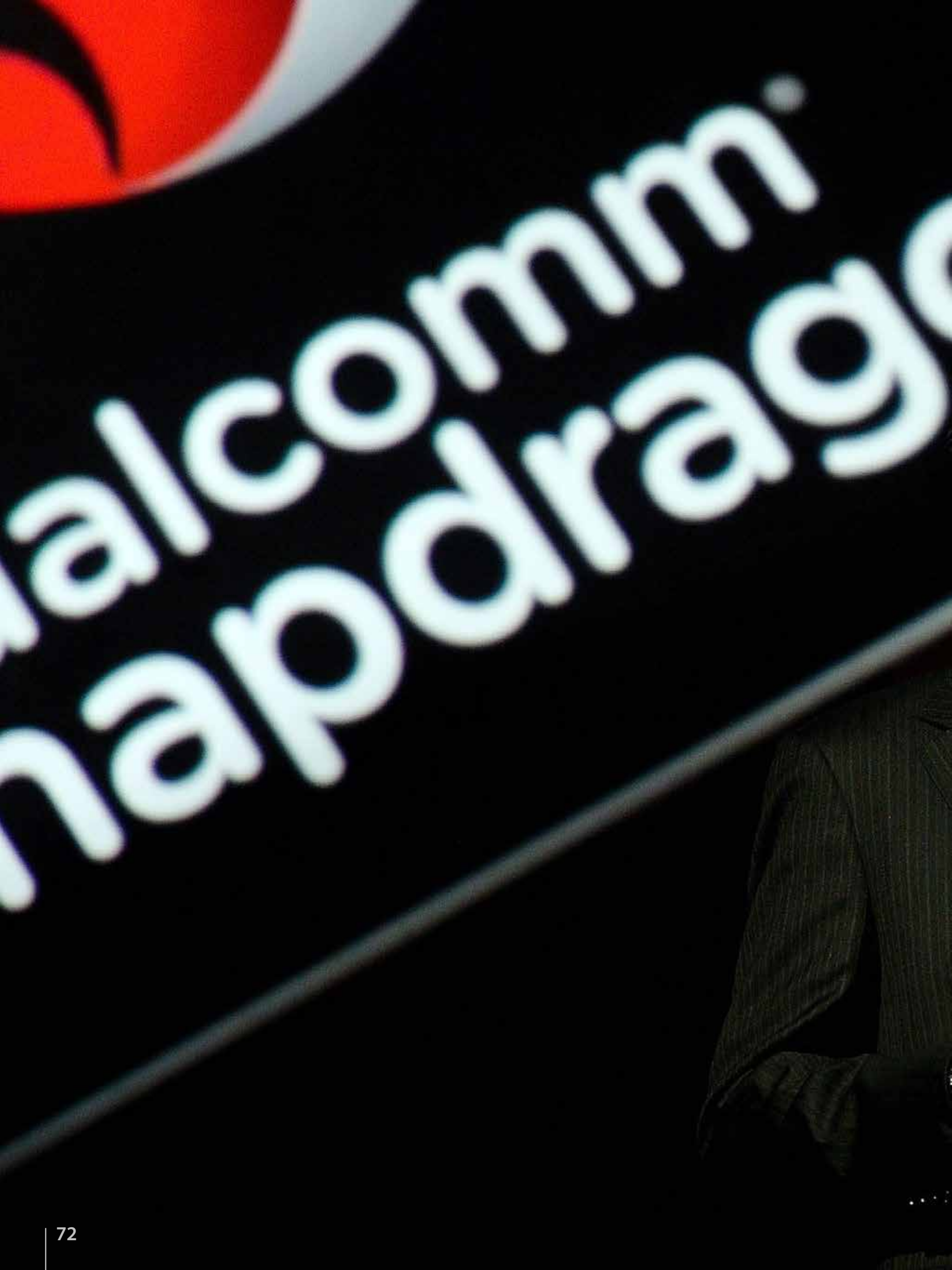


Broadcom said that it remains committed to pursuing a deal.

“We have received positive feedback from key customers about this combination,” CEO Hock Tan said in a company release. “We continue to believe our proposal represents the most attractive, value-enhancing alternative available to Qualcomm stockholders.”

Qualcomm, which makes the Snapdragon chips found in smartphones and tablets, is the world’s No. 3 chip supplier, according to research firm Gartner. A combination with Broadcom would not have propelled it past industry leaders Intel and Samsung.

Broadcom Ltd., also announced, in the company of President Donald Trump, that it would bring its corporate address back from Singapore, to Delaware.





The company hopes the change will make it easier to get deals done and more specifically, help it avoid a cumbersome federal review process for a \$5.5 billion deal for U.S. network provider Brocade Communications Systems. The deal has been delayed by the Committee on Foreign Investment in the United States, which investigates proposed acquisitions of U.S. companies by foreign buyers on national security and intellectual property grounds.

Qualcomm has a pending \$28.1 billion deal with NXP Semiconductor that's under regulatory review in Europe.

Qualcomm, based in San Diego, rode the boom in mobile. Today's Broadcom is the product of a \$37 billion combination in 2016 between Avago, a Singapore-based company that was once part of a former unit of pioneering PC maker Hewlett-Packard, and Broadcom, another company with origins in Southern California which made chips for tablets, smartphones and other telecom and cable applications.

Shares in Broadcom and Qualcomm both dipped slightly as the market opened (13).

MISSOURI ATTORNEY GENERAL INVESTIGATING GOOGLE

Missouri's attorney general announced this week that his office is investigating Google for potential violations of the state's consumer-protection and antitrust laws.

Republican Attorney General Josh Hawley, who also is running for Democratic U.S. Sen. Claire McCaskill's seat in 2018, told reporters that he issued an "investigative subpoena" to the tech giant to gather information. Asked whether his Senate bid influenced his decision to investigate, he said the goal is to "protect the people of Missouri."

Hawley's office is checking into what Google does with the user information it collects and allegations that it inappropriately scrapes information from competitors' websites. It's also looking into allegations that the company manipulates search results to favor its own websites over competitors', which has been the subject of recent scrutiny in Europe.





Google spokesman Patrick Lenihan said in a statement that the company has not yet received the subpoena. "However, we have strong privacy protections in place for our users and continue to operate in a highly competitive and dynamic environment," Lenihan said.

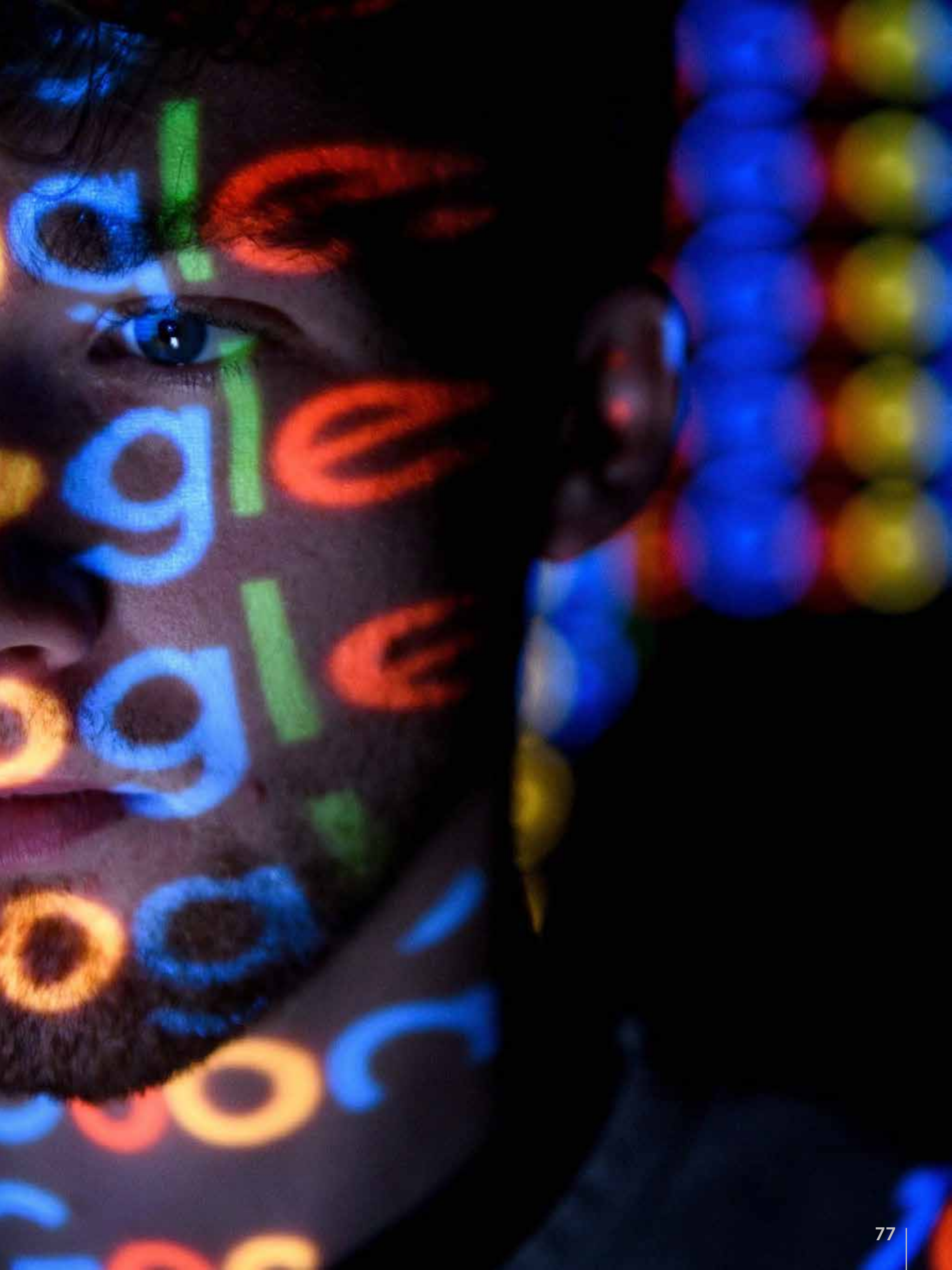
The Missouri investigation comes on the heels of a \$2.7 billion antitrust fine issued to the tech giant by the European Union in June for unfairly featuring its own shopping services in its influential search results.

Federal regulators in the U.S. also have investigated the company over antitrust claims, but Google settled with the Federal Trade Commission in 2013 without making any major concessions on how the company runs its internet search engine. Federal regulators didn't find any reasons to impose radical changes.

Hawley's office argues that federal regulators were wrong not to sue Google and that inaction left an opening for a potential state suit. Hawley said the Federal Trade Commission under former President Barack Obama "did not take any enforcement action against Google, did not press this forward and has essentially given them a free pass."

Hawley's office said Missouri's strong consumer-protection laws could help with a potential lawsuit over user data.









RISE IN TEEN SUICIDE, SOCIAL MEDIA COINCIDE; IS THERE LINK?

An increase in suicide rates among U.S. teens occurred at the same time social media use surged and a new analysis suggests there may be a link.

Suicide rates for teens rose between 2010 and 2015 after they had declined for nearly two decades, according to data from the federal Centers for Disease Control and Prevention. Why the rates went up isn't known.

The study doesn't answer the question, but it suggests that one factor could be rising social media use. Recent teen suicides have been blamed on cyberbullying, and social media posts depicting "perfect" lives may be taking a toll on teens' mental health, researchers say.

"After hours of scrolling through Instagram feeds, I just feel worse about myself because I feel left out," said Caitlin Hearty, a 17-year-old Littleton, Colorado, high school senior who

helped organize an offline campaign last month after several local teen suicides.

“No one posts the bad things they’re going through,” said Chloe Schilling, also 17, who helped with the campaign, in which hundreds of teens agreed not to use the internet or social media for one month.

The study’s authors looked at CDC suicide reports from 2009-15 and results of two surveys given to U.S. high school students to measure attitudes, behaviors and interests. About half a million teens ages 13 to 18 were involved. They were asked about use of electronic devices, social media, print media, television and time spent with friends. Questions about mood included frequency of feeling hopeless and considering or attempting suicide.

The researchers didn’t examine circumstances surrounding individual suicides. Dr. Christine Moutier, chief medical officer at the American Foundation for Suicide Prevention, said the study provides weak evidence for a popular theory and that many factors influence teen suicide.

The study was published Tuesday in the journal *Clinical Psychological Science*.

Data highlighted in the study include:


—Teens’ use of electronic devices including smartphones for at least five hours daily more than doubled, from 8 percent in 2009 to 19 percent in 2015. These teens were 70 percent more likely to have suicidal thoughts or actions than those who reported one hour of daily use.

—In 2015, 36 percent of all teens reported feeling desperately sad or hopeless, or thinking about,



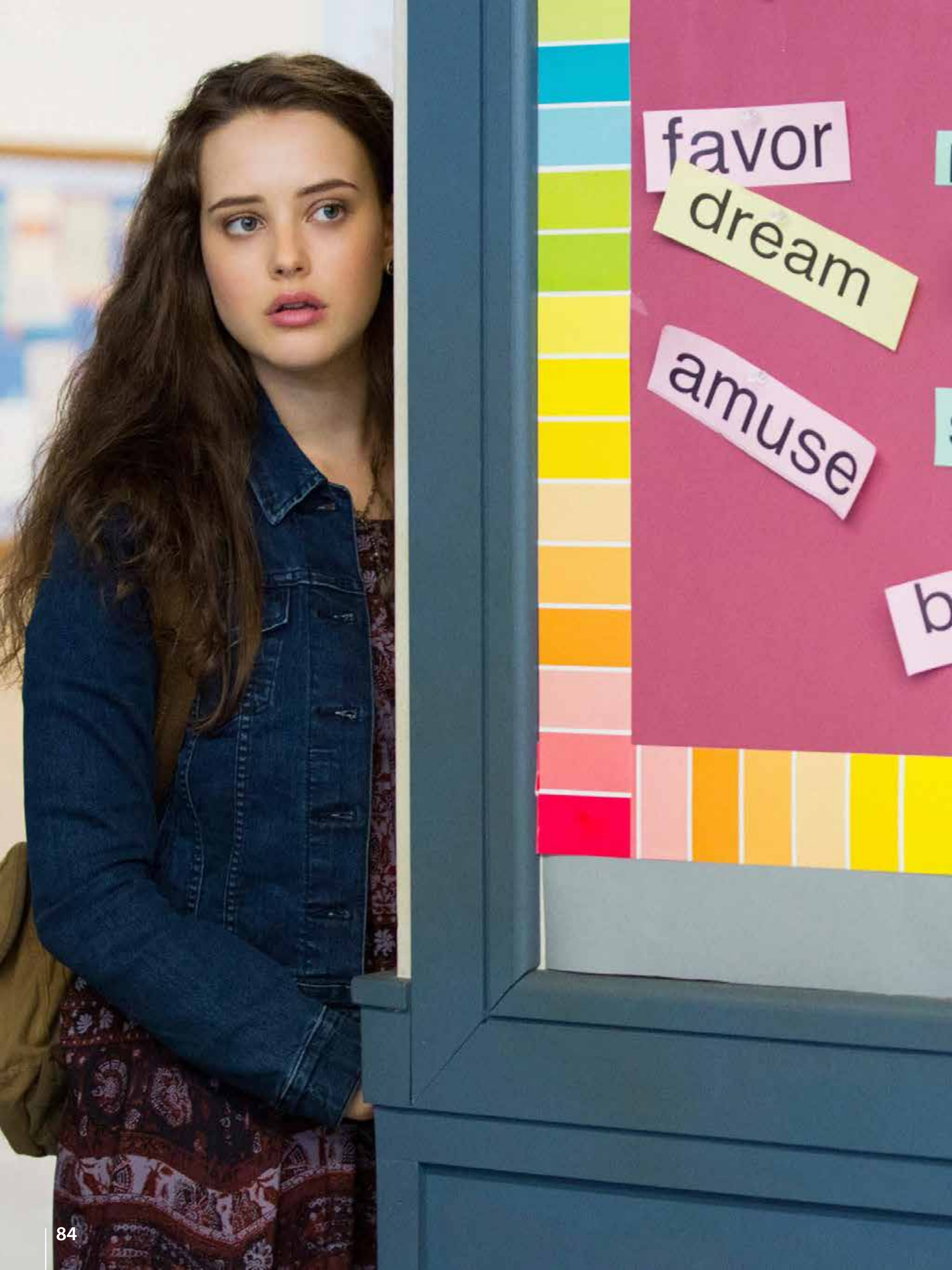


Image: Beth Dubber



An increase in suicide rates among U.S. teens occurred at the same time social media use surged and a new analysis suggests there may be a link.







planning or attempting suicide, up from 32 percent in 2009. For girls, the rates were higher — 45 percent in 2015 versus 40 percent in 2009.

—In 2009, 58% of 12th grade girls used social media every day or nearly every day; by 2015, 87% used social media every day or nearly every day. They were 14% more likely to be depressed than those who used social media less frequently.

“We need to stop thinking of smartphones as harmless,” said study author Jean Twenge, a psychology professor at San Diego State University who studies generational trends. “There’s a tendency to say, ‘Oh, teens are just communicating with their friends.’ Monitoring kids’ use of smartphones and social media is important, and so is setting reasonable limits, she said.

Dr. Victor Strasburger, a teen medicine specialist at the University of New Mexico, said the study only implies a connection between teen suicides, depression and social media. It shows the need for more research on new technology, Strasburger said.

He noted that skeptics who think social media is being unfairly criticized compare it with so-called vices of past generations: “When dime-store books came out, when comic books came out, when television came out, when rock and roll first started, people were saying ‘This is the end of the world.’”

With its immediacy, anonymity, and potential for bullying, social media has a unique potential for causing real harm, he said.

“Parents don’t really get that,” Strasburger said.





NEW INTERNET TV SERVICE HAS \$16 MONTHLY TAB AND NO SPORTS

The hook of the latest internet TV service is a low price and no sports channels.

Analysts estimate that internet TV packages such as Sling TV, YouTube TV and DirecTV Now have so far signed up a few million customers. These services are meant to replace cable TV with a cheaper price and a smaller bundle of channels.

Unlike the existing services, though, Philo doesn't offer many of the networks that are often considered must-have. It lacks sports and the dominant cable news networks and excludes broadcast networks like NBC, ABC, CBS and Fox. Instead, it focuses on music and comedy, scripted series and reality shows, with networks like AMC, Food Network, HGTV, MTV and Comedy Central. (The Spike channel, which is also included, does televise some mixed martial arts, a type of fighting.)

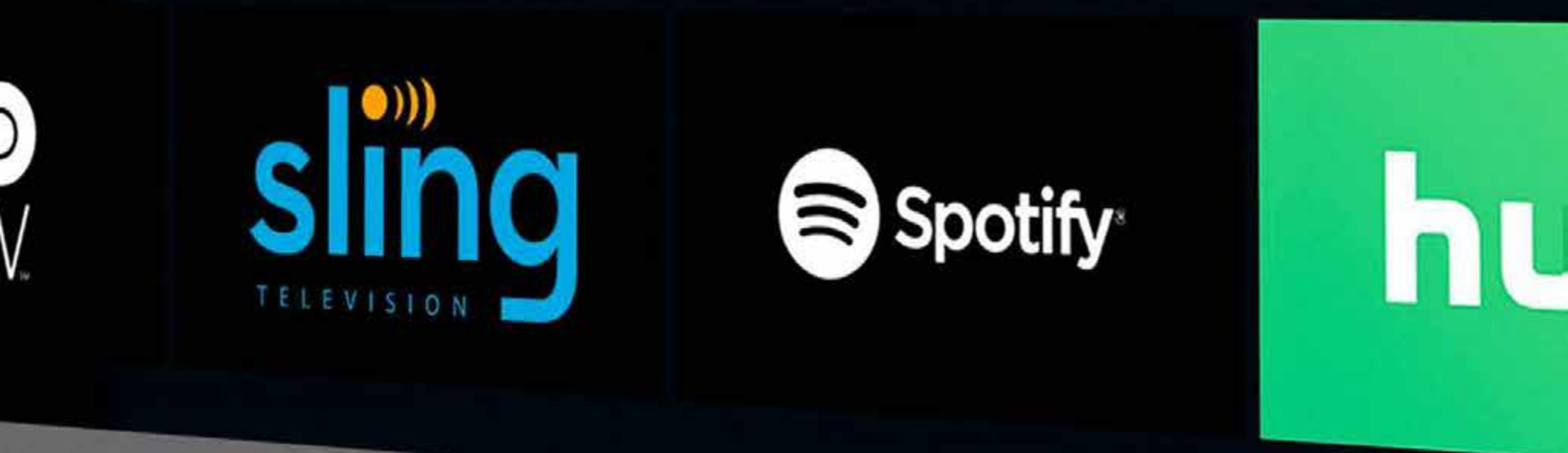
The lack of expensive sports channels and other popular networks helps lower Philo's cost to just \$16 a month for 37 channels. That's cheaper than the other internet-TV services.

The companies that own the networks included in Philo — A+E, AMC, Discovery, Scripps and Viacom — together invested \$25 million in the company, according to Philo. The 6-year-old startup helps traditional cable and satellite TV providers stream video on college campuses. That technology business still exists.

For the new service, available Tuesday, Philo lets you stream simultaneously on three different devices and has an online video recorder that stores programs for 30 days. You can watch on computers, phones and tablets. For now, the only gadget it'll work with for watching on a TV is a Roku.



Y



Westinghouse

TOP 10 APPS

iOS
FREE APPS



#01 – YouTube

By Google, Inc.

Category: Photo & Video / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#02 – Snapchat

By Snap, Inc.

Category: Photo & Video / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#03 – Dune!

By Voodoo

Category: Games / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.

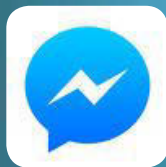


#04 – Instagram

By Instagram, Inc.

Category: Photo & Video / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#05 – Messenger

By Facebook, Inc.

Category: Social Networking / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#06 – Facebook

By Facebook, Inc.

Category: Social Networking / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#07 – Sonic Forces: Speed Battle

By SEGA

Category: Games / Free

Requires iOS 10.0 or later. Compatible with iPhone, iPad, and iPod touch.



#08 – Bitmoji - Your Personal Emoji

By Bitstrips

Category: Utilities / Free

Requires iOS 9.0 or later. Compatible with iPhone, iPad, and iPod touch.



#09 – Netflix

By Netflix, Inc.

Category: Entertainment / Free

Requires iOS 9.0 or later. Compatible with iPhone, iPad, and iPod touch.



#10 – Stack Jump

By Voodoo

Category: Games / Free

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#01 – GarageBand

By Apple

Category: Music / Free

Compatibility: OS X 10.10 or later



#02 – WhatsApp Desktop

By WhatsApp Inc.

Category: Social Networking / Free

Compatibility: OS X 10.9.0 or later, 64-bit processor



#03 – Open Any File

By Rocky Sand Studio Ltd.

Category: Utilities / Free

Compatibility: OS X 10.10 or later, 64-bit processor



#04 – 1Doc: Word Processor for Writer

By Chengyu Huang

Category: Business / Free

Compatibility: OS X 10.10.0 or later, 64-bit processor



#05 – PDF Reader Pro Free

By PDF Technologies, Inc.

Category: Business / Free

Compatibility: OS X 10.8 or later, 64-bit processor



#06 – Xcode

By Apple

Category: Developer Tools / Free

Compatibility: OS X 10.11.5 or later



#07 – Microsoft Remote Desktop

By Microsoft Corporation

Category: Business / Free

Compatibility: OS X 10.9 or later, 64-bit processor



#08 – OneDrive

By Microsoft Corporation

Category: Productivity / Free

Compatibility: OS X 10.9.0 or later, 64-bit processor



#09 – Shazam

By Shazam Entertainment Ltd.

Category: Music / Free

Compatibility: OS X 10.10 or later, 64-bit processor



#10 – Microsoft OneNote

By Microsoft Corporation

Category: Productivity / Free

Compatibility: OS X 10.10 or later, 64-bit processor

TOP 10 APPS

mac OSX FREE APPS

TOP 10 APPS

iOS
PAID APPS



#01 – Minecraft

By Mojang

Category: Games / Price: \$6.99

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#02 – Heads Up!

By Warner Bros.

Category: Games / Price: \$0.99

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#03 – Plague Inc

By Ndemic Creations

Category: Games / Price: \$0.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.

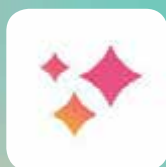


#04 – Afterlight 2

By Afterlight Collective, Inc

Category: Photo & Video / Price: \$2.99

Requires iOS 9.0 or later. Compatible with iPhone, iPad, and iPod touch.



#05 – kirakira+

By Kentaro Yama

Category: Photo & Video / Price: \$0.99

Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.



#06 – NBA 2K18

By 2K

Category: Games / Price: \$7.99

Requires iOS 9.0 or later.



#07 – Bloons TD 5

By Ninja Kiwi

Category: Games / Price: \$2.99

Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch.



#08 – Facetune

By Lightricks Ltd.

Category: Photo & Video / Price: \$3.99

Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.



#09 – HotSchedules

By HotSchedules

Category: Business / Price: \$2.99

Requires iOS 9.0 or later. Compatible with iPhone, iPad, and iPod touch.



#10 – Geometry Dash

By RobTop Games AB

Category: Games / Price: \$1.99

Requires iOS 5.1.1 or later. Compatible with iPhone, iPad, and iPod touch.



#01 – Magnet

By CrowdCafé

Category: Productivity / Price: \$1.39

Compatibility: OS X 10.9 or later, 64-bit processor



#02 – Final Cut Pro

By Apple

Category: Video / Price: \$399.99

Compatibility: OS X 10.11.4 or later, 64-bit processor



#03 – The Sims™ 2: Super Collection

By Aspyr Media, Inc.

Category: Games / Price: \$39.99

Compatibility: OS X 10.9.2 or later



#04 – Duplicate Photos Fixer Pro

By Systweak Software

Category: Photography / Price: \$1.39

Compatibility: OS X 10.7 or later



#05 – Logic Pro X

By Apple

Category: Music / Price: \$279.99

Compatibility: OS X 10.10 or later, 64-bit processor



#06 – Dr. Cleaner Pro

By Trend Micro, Incorporated

Category: Utilities / Price: \$20.99

Compatibility: OS X 10.10 or later, 64-bit processor



#07 – Invoice Templates for Pages

By PixelBox

Category: Productivity / Price: \$39.99

Compatibility: OS X 10.9 or later, 64-bit processor



#08 – Call of Duty® 4: Modern Warfare™

By Aspyr Media, Inc.

Category: Games / Price: \$27.99

Compatibility: OS X 10.6.6 or later



#09 – Affinity Photo

By Serif Labs

Category: Photography / Price: \$69.99

Compatibility: OS X 10.7 or later, 64-bit processor



#10 – Grand Theft Auto 3

By Rockstar Games

Category: Games / Price: \$13.99

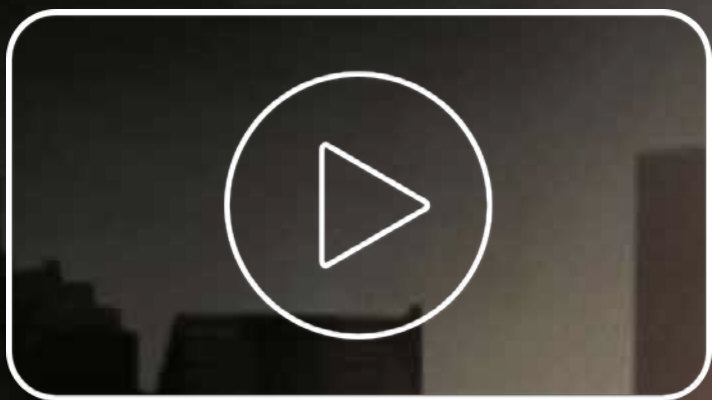
Compatibility: OS X 10.6.6 or later

TOP 10 APPS

mac OSX PAID APPS

iTunes

Review



Trailer

*Movies
& TV Shows*



iTunes Preview



by F. Gary Gray
Genre: Action & Adventure
Released: 2017
Price: \$14.99

★★★★★
511 Ratings

Rotten Tomatoes



67%

The Fate of the Furious

When a mysterious woman named Cipher (Charlize Theron) seduces Dom (Vin Diesel) into the world of terrorism, and he betrays those closest to him, the crew must face trials that will test them as never before.

FIVE FACTS:

1. This is the first film of the franchise to include two Oscar winners: Charlize Theron and Helen Mirren.
2. The film grossed \$63.9 million on opening day, the highest grossest opening day in China.
3. The character played by Scott Eastwood is never named. His father, Clint Eastwood, famously played the Man with No Name in the "Dollars" trilogy.
4. This is the second film of the franchise to not include Paul Walker due to his death on November 30, 2013.
5. The Iceland car chase is reminiscent of the Bond film Die Another Day and many other chases were inspired by Bond movies.

See more in
iTunes



The Fate of the Furious (2017)
Prison Escape Scene (3/10) | Movieclips



The Glass Castle

A young girl comes of age in a dysfunctional family of nonconformist nomads with a mother who's an eccentric artist and an alcoholic father who stirs the children's imagination as a distraction to their poverty.

FIVE FACTS:

1. Based on a true story about a family on the run from the government, often hiding in small towns and living in poverty.
2. Before Brie Larson, Jennifer Lawrence was attached to star and produce the movie but dropped out.
3. In 2007, Jeanette Walls announced the film was in development and that she was looking for a director.
4. Mark Ruffalo and Claire Danes were previously attached as Rex and Rose Walls.
5. This is Brie Larson's second collaboration with director Destin Daniel Cretton. She previously starred in *Short Term 12* (2013).





iTunes Preview



by Destin Daniel Cretton
Genre: Drama
Released: 2017
Price: \$14.99

★★★★★
32 Ratings

Rotten Tomatoes



49%



Trailer





The Glass Castle (2017) Official Clip "Lifestyle"
Brie Larson, Naomi Watts

iTunes

Review



iTunes Preview



Genre: Pop
Released: Nov 3, 2017
14 Songs
Price: \$11.99

★★★★★
28 Ratings



"Too Good At Goodbyes"

Music



The Thrill of It All (Special Edition)

Sam Smith

When Sam Smith made his musical debut in 2014 he sang songs about love lapses and loneliness. On his sophomore album, the emotional songs are still present, and his growth is evident with a piercing voice and vivid lyrics that tell stories about his relationships and experiences over the last three years – the good, the bad and the sad.

FIVE FACTS:

1. Smith is the third cousin of the singer Lily Allen and her brother Alfie Allen.
2. He wrote the entire album *In The Lonely Hour* about an unrequited crush.
3. His cover of Whitney Houston's "How Will I Know" was first aired on an episode of *Grey's Anatomy*.
4. During his teenage years, Smith trained as a jazz singer and sang as a backup singer for his vocal coach during small London gigs.
5. Before he made his big break, his job was scrubbing the toilets in a local bar.





"Burning"
(Live From The Hackney Round Chapel)

Just the Beginning

Grace VanderWaal

When Stevie Nicks introduced Grace VanderWaal during the season finale of America's Got Talent it was with high praise, and after winning the competition she got to work on this magnificent full-length album. VanderWaal is a daring and gifted singer, stretching her voice to hard-to-reach notes and octaves, exploring plucky textures, plush production and breathtaking acoustic balladry.

FIVE FACTS:

1. Grace taught herself how to play the ukulele after being inspired by Twenty One Pilots' cover of "Can't Help Falling in Love."
2. None of her friends knew about her talent until the day after her golden buzzer audition aired.
3. Her real plan was to be on American Idol, but her young age prevented her from competing.
4. She's been compared to Taylor Swift, but Grace says she's more of a Katy Perry fan.
5. She gave a large portion of her America's Got Talent prize money to charity.



iTunes Preview



Genre: Pop
Released: Nov 3, 2017
12 Songs
Price: \$10.99

★★★★★
610 Ratings



"Moonlight"





"So Much More Than This"

BOX OFFICE TOP 20: 'THOR: RAGNAROK' REPEATS AT NO. 1

"Thor: Ragnarok" topped the box office again in its second weekend, adding \$57.1 million from North American theaters. The superhero sequel, the third in the franchise, has grossed \$212.1 million domestically to date.

It beat out newcomers like the comedy sequel "Daddy's Home 2," which opened in second with a solid \$29.7 million, and Kenneth Branagh's lush adaptation of Agatha Christie's "Murder on the Orient Express," which debuted in third with \$28.7 million.

In fourth place was "A Bad Moms Christmas" with \$11.5 million that bumps up its domestic total to \$39.8 million, and in fifth was the horror pic "Jigsaw," in its third week in theaters, which took in \$3.4 million.

Among smaller releases, the coming-of-age pic "Lady Bird" cracked the top 10 in its expansion to only 37 theaters. The Greta Gerwig-directed film earned \$1.2 million.





The top 20 movies at U.S. and Canadian theaters Friday through Sunday, followed by distribution studio, gross, number of theater locations, average receipts per location, total gross and number of weeks in release, as compiled Monday by comScore:

1. *"Thor: Ragnarok,"* Disney, \$57,078,306, 4,080 locations, \$13,990 average, \$212,068,013, 2 Weeks.

2. *"Daddy's Home 2,"* Paramount, \$29,651,193, 3,575 locations, \$8,294 average, \$29,651,193, 1 Week.

3. *"Murder On The Orient Express,"* 20th Century Fox, \$28,681,472, 3,341 locations, \$8,585 average, \$28,681,472, 1 Week.

4. *"A Bad Moms Christmas,"* STX Entertainment, \$11,468,964, 3,615 locations, \$3,173 average, \$39,832,590, 2 Weeks.

5. *"Jigsaw,"* Lionsgate, \$3,424,319, 2,651 locations, \$1,292 average, \$34,358,412, 3 Weeks.





6. "Tyler Perry's Boo 2! A Madea Halloween," Lionsgate, \$2,001,108, 1,900 locations, \$1,053 average, \$45,851,571, 4 Weeks.

7. "Geostorm," Warner Bros., \$1,641,680, 1,685 locations, \$974 average, \$31,720,572, 4 Weeks.

8. "Blade Runner 2049," Warner Bros., \$1,460,463, 863 locations, \$1,692 average, \$88,051,760, 6 Weeks.

9. "Happy Death Day," Universal, \$1,266,440, 1,564 locations, \$810 average, \$54,908,045, 5 Weeks.

10. "Lady Bird," A24, \$1,199,748, 37 locations, \$32,426 average, \$1,731,828, 2 Weeks.





11. *"Let There Be Light,"* Atlas
Distribution Company, \$1,114,560,
774 locations, \$1,440 average,
\$5,939,454, 3 Weeks.

12. *"Only The Brave,"* Sony, \$936,889,
1,207 locations, \$776 average,
\$17,060,805, 4 Weeks.

13. *"Thank You For Your Service,"*
Universal, \$853,295, 1,348 locations,
\$633 average, \$9,063,685, 3 Weeks.

14. *"Lego Ninjago Movie, The,"* Warner
Bros., \$801,680, 771 locations,
\$1,040 average, \$58,524,340, 8 Weeks.

15. *"The Foreigner,"* STX Entertainment,
\$781,257, 737 locations,
\$1,060 average, \$33,474,379, 5 Weeks.





12



13

16. *"Victoria And Abdul," Focus Features,*
\$677,906, 637 locations,
\$1,064 average, \$21,140,610, 8 Weeks.

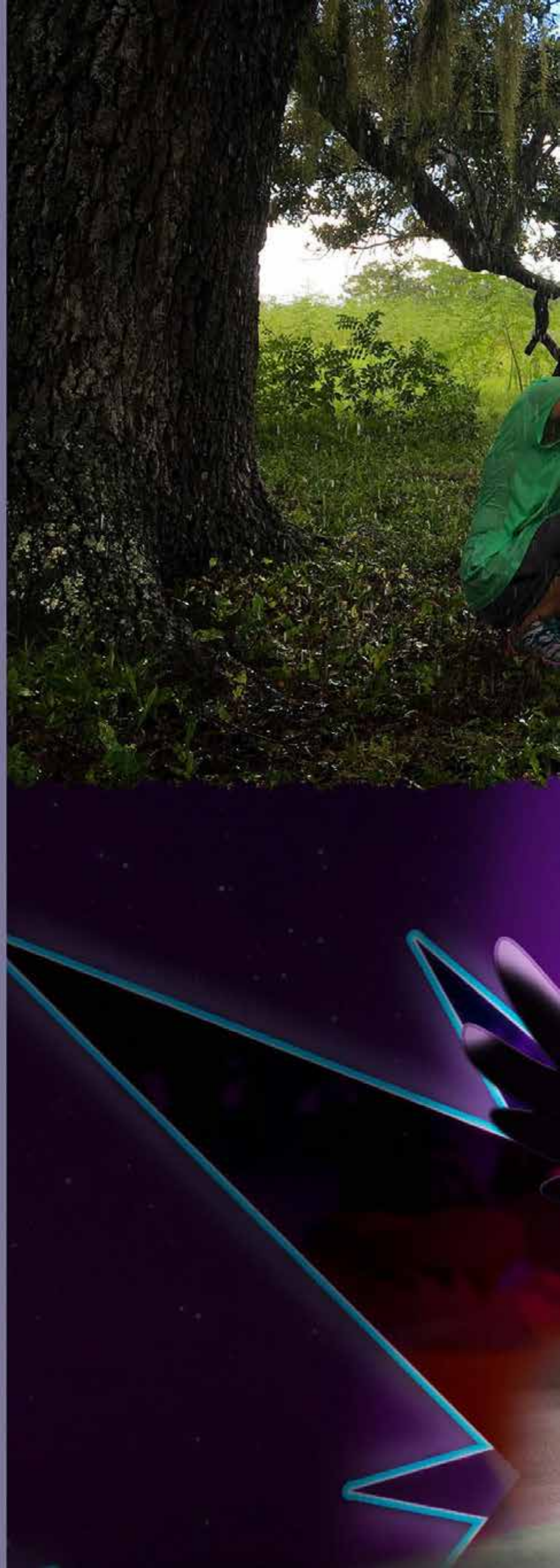
17. *"The Florida Project," A24, \$540,507,*
229 locations, \$2,360 average,
\$3,800,385, 6 Weeks.

18. *"Loving Vincent," Good Deed*
Entertainment, \$512,194,
212 locations, \$2,416 average,
\$3,931,068, 8 Weeks.

19. *"My Little Pony: The Movie,"*
Lionsgate, \$508,815, 592 locations,
\$859 average, \$21,520,056, 6 Weeks.

20. *"LBJ," Vertical Entertainment,*
\$486,285, 608 locations,
\$800 average, \$2,062,231, 2 Weeks.

Universal and Focus are owned by NBC Universal, a unit of Comcast Corp.; Sony, Columbia, Sony Screen Gems and Sony Pictures Classics are units of Sony Corp.; Paramount is owned by Viacom Inc.; Disney, Pixar and Marvel are owned by The Walt Disney Co.; Miramax is owned by Filmyard Holdings LLC; 20th Century Fox and Fox Searchlight are owned by 21st Century Fox; Warner Bros. and New Line are units of Time Warner Inc.; MGM is owned by a group of former creditors including Highland Capital, Anchorage Advisors and Carl Icahn; Lionsgate is owned by Lions Gate Entertainment Corp.; IFC is owned by AMC Networks Inc.; Rogue is owned by Relativity Media LLC.





17



19





A QUICK WORD WITH EZRA MILLER ON BECOMING 'THE FLASH'

Ezra Miller brings an electric energy to the superhero team-up film "Justice League," pinballing off the more imposing presences of Henry Cavill, Gal Gadot and Ben Affleck.

They are mighty. He is fast.

Miller was first cast as Barry Allen, a.k.a. The Flash, several years ago, but "Justice League" is his most front-and-center performance yet as the fastest man alive. He's also the best thing in the film, adding a hyper, insecure liveliness that has often been lacking from many recent, more grandiose DC Comics films.

As played by the 25-year-old, Barry is a motor-mouthed loner who, when asked by Bruce Wayne to join the League, is mostly happy to just have some friends.

Miller, who has been credited as the first out LGBT person to play a lead role in a major superhero film, has distinguished himself by playing hyper-verbal outcasts in movies big ("Fantastic Beasts and Where to Find Them")

and small (“We Need to Talk About Kevin,” “The Perks of Being a Wallflower”). Speaking by phone from London, Miller spoke with verbal gymnastics that even the Flash might struggle to keep up with.

Q: From “City Island” to “Fantastic Beasts” you seem to be drawn to playing outsiders.

Miller: I’m definitely interested in what I would call Barbara McClintock’s discovery of the rebellious gene. Things advance by mutating away from their point of origin. I do think that happens on not just a cellular or genetic level but within civil society. A lot of the people who have shaped ideas and science on planet Earth have been outsiders. I feel often like an outside. It’s a fascinating type of person to portray. And I think ultimately everyone has an element of that in their experience even if their life doesn’t fully present that on first look. I think everyone can feel alienated and can both benefit by that and know the harm of that.

Q: You seem a quick-witted person. Do you identify with the Flash?

Miller: A cool idea about the Flash is that he, as he starts to move quicker and quicker with his body, he must also speed up mentally. When we shoot something in slow-motion, like we might on a Flash-inclusive movie, the way that’s done is by rolling the camera faster. You shoot more frames per second when you want to slow down the image. In the same way, the Flash, as he moves faster, has to speed up to his brain in order to slow down his perception. That’s all well and good when he’s in superhero-mode, but one of the questions of our film asks is how does that play out in social circumstances? I think









there are qualities that have been detrimental to his social capacity.

Q: Were you at all concerned that a big production like this would leave less room for the kind of acting you practice?

Miller: I feel personally that if I'm struggling for integrity, I'm already lacking in it. I come from a place where instead of trying to manufacture my standards of integrity I'm trying to work in such a way that I trust in that inherently when I step to any project, whatever the scale. I want to maintain the integrity of my process. Outside of that, forget about it. It's anyone's game.

Q: But was there some appeal in bouncing off the more archetypal performances by Cavill, Gadot and Affleck?

Miller: Yeah, that's one of the great joys. In a situation like this to have the immense gravity of everything — which I think is really maintained in this film — but then be in a situation where I can improvise. I can play. I can react in the way that I feel Barry might, in a way that can feel deeply human. That was exciting to me, the idea that in the age of superhero films in their absolute crescendo, you have this character who's sort of a fan who appreciates what he's witnessing. And to have someone who's having really human reactions to what's going on — to see a villain and have a panic attack — I connect with that. I think people connect with that. I think that's where we are. In terms of realizing our true potential as superheroes, the species on the planet, we're in amateur, novice stages. We are tripping over our own feet like Barry in this movie.



မြတ်ဗုဒ္ဓဘုရားရှင်တော်

မြတ်ဗုဒ္ဓဘုရားရှင်တော်



'LORD OF THE RINGS' TV SERIES COMING TO AMAZON PRIME

Amazon says it has acquired the global television rights to "The Lord of the Rings," based on the fantasy novels by J.R.R. Tolkien, with a multi-season commitment.

Set in Middle Earth, this TV series will explore new story lines preceding Tolkien's "The Fellowship of the Ring." The deal includes a potential additional spin-off series, Amazon said Monday.

"The Lord of the Rings" canon was named Amazon customers' favorite book of the millennium in 1999. The three films directed by Peter Jackson earned a combined gross of nearly \$6 billion worldwide.

No launch date or cast members for the new series was announced by Amazon.





CLOSE NEW EARTH-SIZE WORLD, WHERE YEAR LASTS UNDER 10 DAYS

Astronomers have discovered a close new world about the size of Earth, where a year lasts just under 10 days.

At a distance of 11 light-years, Ross 128 b is the second-closest planet to be detected yet outside our solar system with surface temperatures potentially similar to ours.

Ross 128 b is very near its star, thus the short orbit. But it doesn't get broiled because the red dwarf star is cool. The star is also quiet, meaning no radiation flare-ups. That's encouraging news for seekers of extraterrestrial life. The planet is believed to border the so-called habitable zone.

A team led by the University of Grenoble Alps' Xavier Bonfils made the discovery using La Silla Observatory in Chile. The findings were reported Wednesday.

NASA's exoplanet count stands at 3,550.





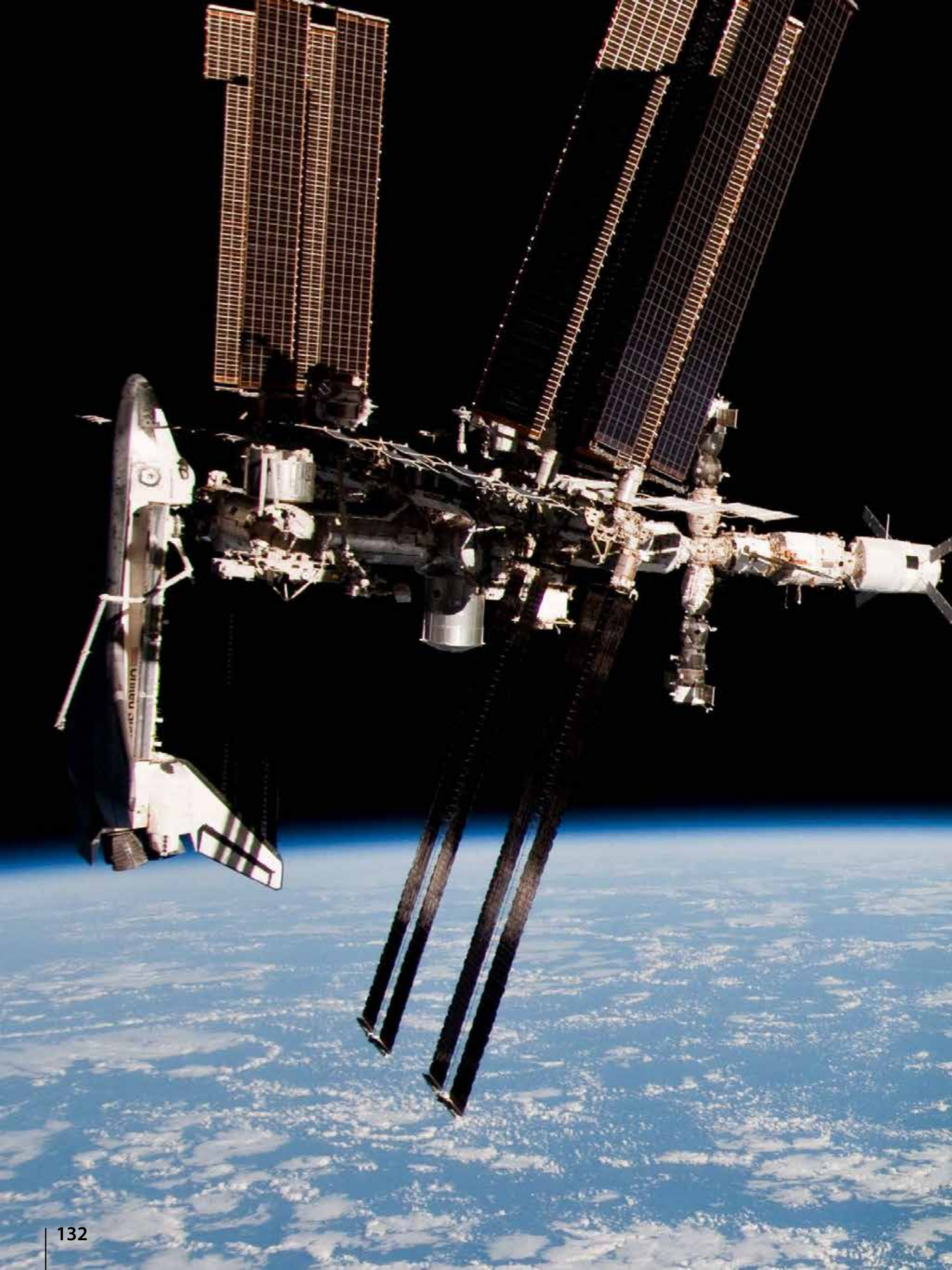
SPACE DELIVERY: ASTRONAUTS GET ICE CREAM, MAKE-OWN PIZZAS

Astronauts got a mouth-watering haul with Tuesday's Earth-to-space delivery — pizza and ice cream.

A commercial supply ship arrived at the International Space Station two days after launching from Virginia. Besides NASA equipment and experiments, the Orbital ATK capsule holds chocolate and vanilla ice cream for the six station astronauts, as well as make-your-own flatbread pizzas.

Astronauts always crave pizza in orbit, but it's been particularly tough for Italy's Paolo Nespoli. He's been up there since July and has another month to go.

Nespoli used the space station's robot arm to grab the cargo ship, as they zoomed 260 miles above the Indian Ocean.



Besides flatbread, the capsule contains all the makings of a good Earth pizza: sauce, cheese, pepperoni, anchovy paste, tomatoes, pesto, olive oil and more.

Astronauts also get a hankering for cold treats, thus the big frozen shipment of ice cream cups, ice cream sandwiches, ice cream bars and frozen fruit bars.

In all, the capsule contains nearly 4 tons of cargo. It's named the S.S. Gene Cernan in honor of the last man to walk on the moon, who died in January.

The experiments include mealworms and micro clover, sent up by high school students.

The supply ship will remain at the space station until the beginning of December, when it's cut loose with a load of trash. It will hover close to the orbiting lab as part of an experiment, then several mini satellites will be released and it will burn up in the atmosphere on re-entry.

SpaceX, NASA's other prime shipper, will make a delivery next month.

Online: Orbital ATK: www.orbitalatk.com







MICHIGAN CENTER PROVIDES SPACE TO TEACH SCIENCE, TECHNOLOGY

Every stem needs a place to grow and STEM (science, technology, engineering and math) now has one under the pyramid at Logan's Landing.

Local robotics mentors John Gilligan and Philip Leete started Quarkmine in September of 2016 and added Space to its name on Oct. 14, opening almost 4,000 square feet of space as a regional hub to make, play and learn.

"We're kind of a gym for your brain: A maker space, tech, robotics and gaming facility," Gilligan told the Traverse City Record-Eagle.

"We're a place where all kinds of things happen, everywhere from robotics teams of elementary through college kids come here to practice. We have a pretty good sized maker community started where people are coming in and working on projects, 3-D printing, Arduino, Raspberry Pi and even woodworking."

Gilligan brings an informational technology and entrepreneurial background to Quarkmine Space. Leete brings the educational component, having left Traverse City Area Public Schools to join the ownership team.

Leete said community outreach demands in robotics eventually led him away from teaching, even though he still retains his secondary certification.

“It became unmanageable as a teacher to handle all these other volunteer hours,” Leete said. “I was putting in more time volunteering at a regional level to answer those questions than I was actually doing in the classroom. John and I started looking into is there a need to help those districts find a way to re-engage their community and that’s where Quarkmine really began, first with STEM (science, technology, engineering, math) events and education and then we realized there was a definite need for a centralized location where that can happen, which is why Space came into existence. ... It creates a physical location where those questions can be answered, (regardless) of what school you attend or how old you are.”

Gilligan said there is a definite growth in the area of school robotic teams, especially before students reach high school. Gilligan said a few years ago there was “one official team” in elementary through middle school — and now there are about 70.

“We got our start in local robotics competitions,” Gilligan said. “Both Phil and I had been involved in the public schools robotics programs and just realized that the model wasn’t really something that’s sustainable, that’s workable. So we came up with the solution to get more rural schools involved by making it really easy for them. That’s kind of how we kind of got our start all across northern Michigan. ... We have a pretty well-oiled machine as far as finding out what robotics is, getting kids





interested, forming teams, finding coaches for teams and then we run events as a service. We can do anything basically related to robotics teams.”

Quarkmine Space uses a membership model, offering a standard one-year membership for \$30 a month and a family rate for \$75 a month. Quarkmine offers a 10 percent discount when paying annually. An individual “pay as you go” membership is \$50 a month.

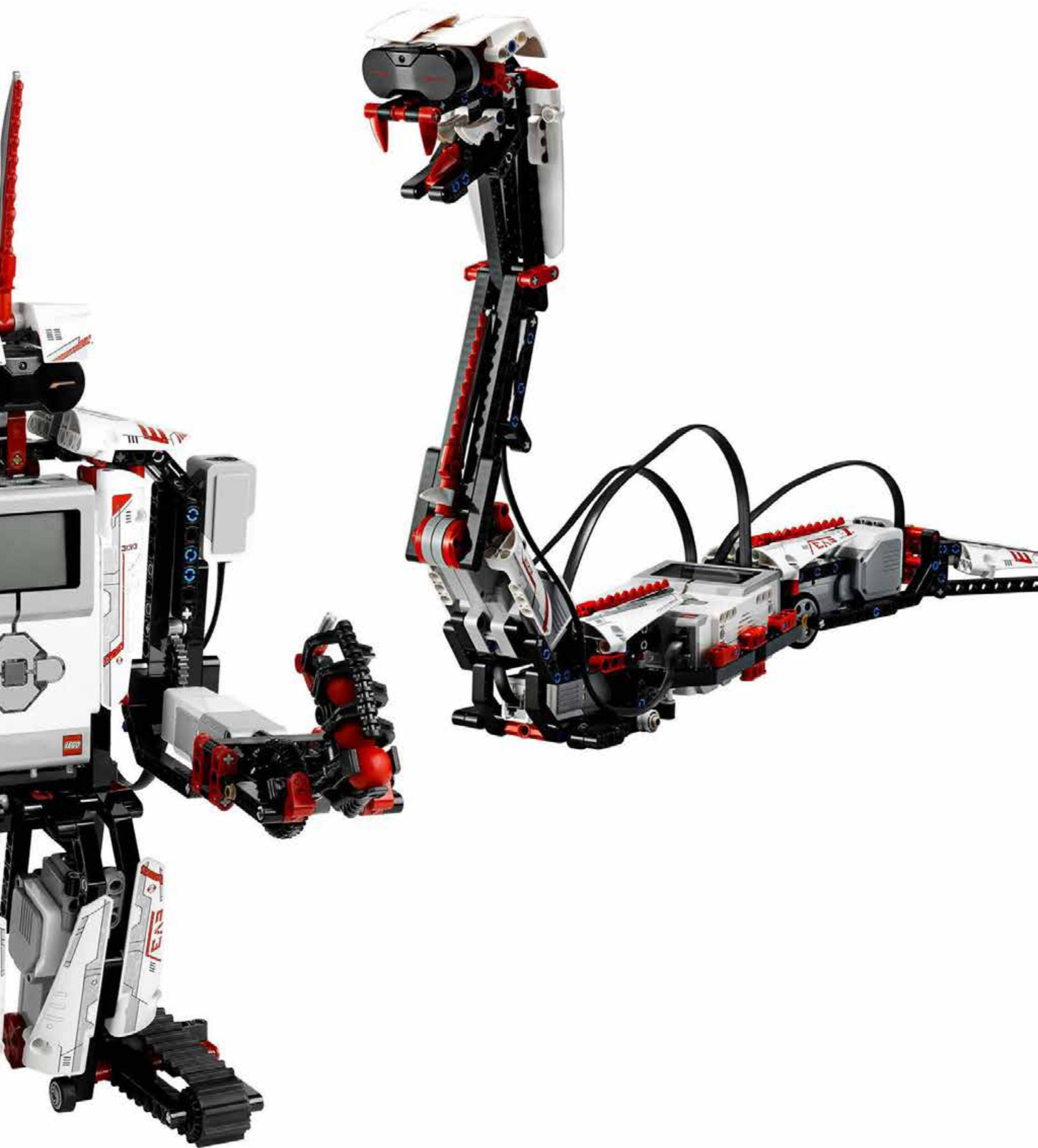
Classes are available for members and non-members in areas such as VEX IQ Robotics, Lego Mindstorms EV3, 3-D drawing and printing and electronics. A rocketry class is planned.

“We have a membership model, that’s what the bulk of the people coming in here are signed up for,” Gilligan said. “They pay a monthly membership. That entitles you to some membership benefits, but we also have classes that are available for the general public as well.”

In addition to exposing people to STEM activities, Leete said collaboration is a big component to Quarkmine Space. Both co-owners said creating a sense of community is important when manufacturing options are more spread out away from larger urban centers.

“They’re not part of a community, they’re not part of a conversation because no one knows what they’re doing,” Leete said. “That was why there was such an educational component to what Space does. ... It gives them something they can try to do that they will be successful at, because they are coming to a community center that has all the support that they would need. Once they’ve had those early successes, they can go further. So there’s that adult side also, to not be afraid of the technology that’s coming.”









US REGULATORS APPROVE FIRST DIGITAL PILL TO TRACK PATIENTS

U.S. regulators have approved the first drug with a sensor that alerts doctors when the medication has been taken, offering a new way of monitoring patients but also raising privacy concerns.

The digital pill approved this week combines two existing products: the former blockbuster psychiatric medication Abilify — long used to treat schizophrenia and bipolar disorder — with a sensor tracking system first approved in 2012.

The technology is intended to help prevent dangerous emergencies that can occur when patients skip their medication, such as manic episodes experienced by those suffering from bipolar disorder.

But developers Otsuka Pharmaceutical Co. and Proteus Digital Health are likely to face hurdles. The pill has not yet been shown to actually improve patients' medication compliance, a feature insurers are likely to insist on before paying for the pill. Additionally, patients must be willing to allow their doctors and caregivers to access the digital information.

These privacy issues are likely to crop up more often as drugmakers and medical device companies combine their products with technologies developed by Silicon Valley.

Experts say the technology could be a useful tool, but it will also change how doctors relate to their patients as they're able to see whether they are following instructions.

"It's truth serum time," said Arthur Caplan, a medical ethicist at NYU's Langone Medical Center. "Is the doctor going to start yelling at me? Am I going to get a big accusatory speech? How will that interaction be handled?"

The technology carries risks for patient privacy too if there are breaches of medical data or unauthorized use as a surveillance tool, said James Giordano, a professor of neurology at Georgetown University Medical Center.

"Could this type of device be used for real-time surveillance? The answer is of course it could," said Giordano.

The new pill, Abilify MyCite, is embedded with a digital sensor that is activated by stomach fluids, sending a signal to a patch worn by the patient and notifying a digital smartphone app that the medication has been taken.



Otsuka

●電解質濃度

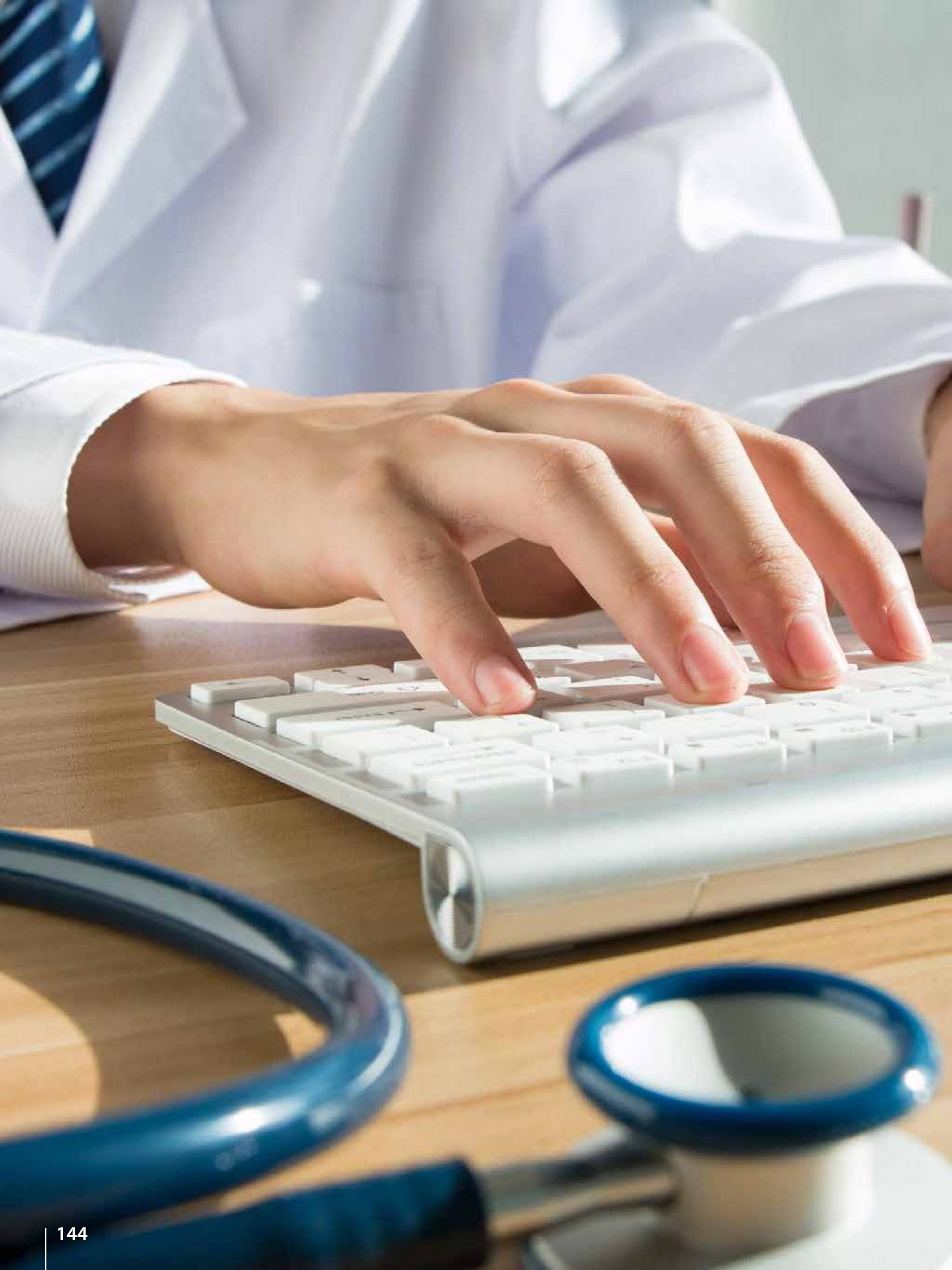
陽イオン (mEq/l)

Na⁺ 21

K⁺ 5

Ca²⁺ 1

Mg²⁺ 0.5





The FDA stressed however that there are limitations to monitoring patients.

“Abilify MyCite should not be used to track drug ingestion in ‘real-time’ or during an emergency,” the statement said, “because detection may be delayed or may not occur.”

Patients can track their dosage on their smartphone and allow their doctors, family or caregivers to access the information through a website.

In a statement issued last May at the time the FDA accepted submission of the product for review, the companies said “with the patient’s consent, this information could be shared with their health care professional team and selected family and friends, with the goal of allowing physicians to be more informed in making treatment decisions that are specific to the patient’s needs.”

While it’s the first time the FDA has approved such a pill, various specialty pharmacies and hospitals in the U.S. have previously “packaged” various drugs and sensors. But the federal endorsement increases the likelihood that insurers will eventually pay for the technology.

Drugmakers frequently reformulate their drugs to extend their patent life and to justify raising prices. For instance, Otsuka already sells a long-acting injectable version of Abilify intended to last for one month. The patent on the original Abilify pill expired in 2015.

The Japanese drugmaker has not said how it will price the digital pill. Proteus Digital Health, based in Redwood City California, makes the sensor.





TOP 10 SONGS

HAVANA (FEAT. YOUNG THUG)

CAMILA CABELLO

THUNDER

IMAGINE DRAGONS

CALL IT WHAT YOU WANT

TAYLOR SWIFT

PERFECT

ED SHEERAN

WHAT LOVERS DO (FEAT. SZA)

MAROON 5

FEEL IT STILL

PORTUGAL. THE MAN

TOO GOOD AT GOODBYES

SAM SMITH

BAD AT LOVE

HALSEY

...READY FOR IT?

TAYLOR SWIFT

I'LL NAME THE DOGS

BLAKE SHELTON





TOP 10 ALBUMS

TEXOMA SHORE

BLAKE SHELTON

UNAPOLOGETICALLY

KELSEA BALLERINI

MEANING OF LIFE

KELLY CLARKSON

NOW THAT'S WHAT I CALL MUSIC, VOL. 64

VARIOUS ARTISTS

SOUTHERN GIRL CITY LIGHTS

JESSIE JAMES DECKER

JUST THE BEGINNING

GRACE VANDERWAAL

EVOLVE

IMAGINE DRAGONS

÷ (DELUXE)

ED SHEERAN

THOR: RAGNAROK

(ORIGINAL MOTION PICTURE SOUNDTRACK)

MARK MOTHERSBAUGH

THIS ONE'S FOR YOU

LUKE COMBS





TOP 10 MUSIC VIDEOS

...READY FOR IT?

TAYLOR SWIFT

HAVANA (FEAT. YOUNG THUG)

CAMILA CABELLO

LOOK WHAT YOU MADE ME DO

TAYLOR SWIFT

DESPACITO (FEAT. DADDY YANKEE)

LUIS FONSI

THUNDER

IMAGINE DRAGONS

WHEN IT RAINS IT POURS

LUKE COMBS

THRILLER

MICHAEL JACKSON

POUR SOME SUGAR ON ME

DEF LEPPARD

WOMEN

DEF LEPPARD

YONCÉ

BEYONCÉ





TOP 10 TV SHOWS

COME ON DOWN TO MY BOAT, BABY

GREY'S ANATOMY, SEASON 14

THE DAMNED

THE WALKING DEAD, SEASON 8

ADVENTURES IN BABYSITTING

SCANDAL, SEASON 7

CHAPTER SEVENTEEN:

"THE TOWN THAT DREADED SUNDOWN"

RIVERDALE, SEASON 2

THERE'S SNOW BUSINESS

LIKE SEW BUSINESS

PROJECT RUNWAY, SEASON 16

THE 20'S

THIS IS US, SEASON 2

THE PROTON REGENERATION

THE BIG BANG THEORY, SEASON 11

MERCY

THE WALKING DEAD, SEASON 8

CHAPTER SIXTY-EIGHT

JANE THE VIRGIN, SEASON 4

ENEMY BAG OF TRICKS

BLINDSPOT, SEASON 3





TOP 10 BOOKS

THE ROOSTER BAR

JOHN GRISHAM

ORIGIN

DAN BROWN

TWO KINDS OF TRUTH

MICHAEL CONNELLY

CONSPIRACY IN DEATH

J. D. ROBB

THE HANDMAID'S TALE

MARGARET ATWOOD

DEEP FREEZE

JOHN SANDFORD

MURDER ON THE ORIENT EXPRESS

AGATHA CHRISTIE

THIRTY DAY BOYFRIEND

WHITNEY G.

THE MIDNIGHT LINE

LEE CHILD

LORD JOHN AND THE PRIVATE MATTER

DIANA GABALDON





WATER WIZARDS: DUTCH FLOOD EXPERTISE IS BIG EXPORT BUSINESS

On a calm, clear morning, historic wooden fishing boats float tranquilly on the glassy waters of the Dutch harbor of Spakenburg. Yet just over a century ago, they were slamming through the houses lining the harbor as a powerful storm unleashed flooding that devastated this picturesque fishing village.

These days, an innovative new self-raising dike protects the village on the edge of Eemmeer Lake, 50 kilometers (30 miles) southeast of Amsterdam. The 300-meter (984-foot) long barrier is concealed in the sidewalk when not in use, and is lifted up to 80 centimeters (31 inches) by the very floodwaters it is designed to keep out.

It's just the latest example of Dutch ingenuity and planning in this low-lying nation's constant battle with water — and increasingly, technology like it is becoming a lucrative Dutch export.

"We live here in a very vulnerable place," said Roeland Hillen, director of the Dutch Flood Protection Program. "We have to adapt to survive."

That message resonates with many other flood-prone countries now attending climate change talks in Bonn, where delegates from some 195 nations have gathered to discuss rules for implementing the 2015 Paris climate accord. The meeting in the former German capital, which runs until this Friday, is being presided over by Fiji, one of the many small island nations threatened by rising sea levels.

“We will feel the impact of climate change all over the world most profoundly through water,” said Henk Ovink, the Netherlands’ Special Envoy for International Water Affairs, who is at the Bonn conference.

The Dutch government teamed up earlier this year with Japan and the U. N. Environment Program to create a Global Center of Excellence on Climate Adaptation in the Netherlands that will be formally launched Tuesday on the sidelines of the Bonn conference.

The center aims to “support those who struggle to put climate adaptation effectively into practice in all parts of the world,” the government said.

Housing the water expertise center in the Netherlands was a no-brainer. Some 26 percent of this nation of 17 million people lies below sea level and 29 percent is vulnerable to river flooding. The Dutch struggle to keep the country dry has been a constant fact of life for centuries.

The center will have bases in the northern city of Groningen and in a new floating office in the port city of Rotterdam.

The Dutch government earmarks 1 billion euros (\$1.16 billion) per year to keep up its defenses









against high water. The money is spent on maintaining and strengthening dikes and levees and on other water mitigation measures. By 2050, the country aims to reinforce some 1,900 kilometers (1,180 miles) of dikes and levees, Hillen said.

But while the costs are high, expertise and technology developed by the Dutch are becoming increasingly valuable commodities. Annual exports of Dutch water technology and expertise have doubled since 2000 to just under 8 billion euros (\$9.3 billion) a year.

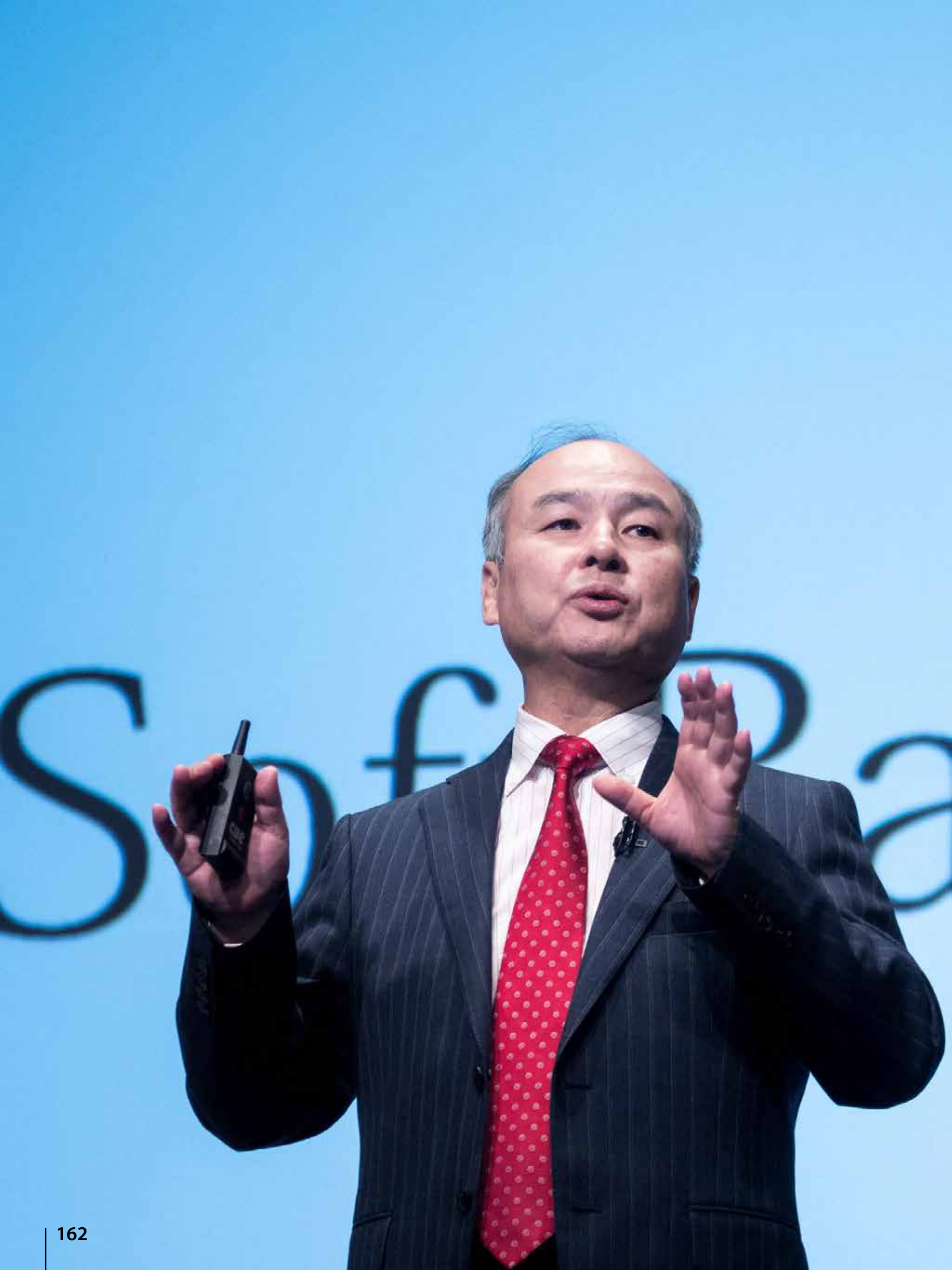
“Water is an asset and a threat,” said Ovink.

Recent contracts involving Dutch companies include Netherlands-based Arcadis being selected as part of a consortium involved in a 10-year “seawall resiliency project” to strengthen a century-old San Francisco harbor wall that protects an area including the city’s beloved Fisherman’s Wharf.

Back in Spakenburg, experts say the self-raising dike is a good example not only of new techniques for holding back rising tides, but also how to integrate such barriers in spatial planning. Sinking the wall into the sidewalk means that it does not spoil views of the picturesque harbor for tourists or locals. The technology already is being put to use in projects in England, Vietnam and China.

Ovink stresses that it is just one of a multitude of defenses the Dutch have developed to hold water at bay.

“There is no (single) fix,” he said. “It’s a culture of living with water.”



UBER SEALS MULTIBILLION-DOLLAR INVESTMENT FROM SOFTBANK

ank
Group

Japanese technology conglomerate SoftBank has reached a deal with Uber to invest billions in the ride-hailing giant.

Uber Technologies Inc. confirmed the investment in a statement Sunday without giving details.

But a person briefed on the deal told media that SoftBank Group will buy about \$1 billion worth of new Uber stock, then will offer to purchase shares from investors and Uber employees with the goal of reaching a 14 percent stake in the company. Uber currently is valued at \$68.5 billion, but stock offers will be based on a lower valuation, so it's unknown just how much the total deal multibillion-dollar deal will be worth, said the person, who spoke on condition of anonymity because details were not released.

Uber's statement said it reached an agreement with a consortium led by SoftBank and Dragoneer Investment Group. The deal is a vote

of confidence in the company's potential and "will help fuel our investments in technology and our continued expansion at home and abroad, while strengthening our corporate governance," the statement said.

The move also clears the way for Uber, among the most valuable tech firms in the world, to sell stock to the public. Under the deal, the initial public offering will take place before the end of 2019.

SoftBank in Tokyo declined comment.

Such IPO deals generally take some time to be finalized, as they involve many people.

The long-awaited deal was made public in October but was delayed by a corporate governance and legal dispute between investor Benchmark Capital and ousted CEO Travis Kalanick. Both sides ended their feud on Sunday, clearing the way for the SoftBank investment, the person said.

Kalanick, who controls three of 11 seats on the Uber board, agreed to allow a majority of board members to vote on any future appointments he makes, according to the person. Benchmark agreed to suspend a lawsuit against Kalanick and drop it once Softbank gets through a one-month tender offer period that will start in about two weeks. Benchmark, a major Silicon Valley venture capital firm that was among Uber's early backers, alleged in the lawsuit that Kalanick covered up turmoil and legal threats at Uber.

The deal allows early investors such as Benchmark to sell at least some of their shares at a handsome profit. But there will likely be some wrangling over how much shares are worth in the coming weeks.









EXTRADITION HEARING FOR RUSSIAN CYBERCRIME SUSPECT POSTPONED

Greece's Supreme Court on Wednesday postponed until December an extradition hearing for Russian cybercrime suspect Alexander Vinnik, wanted in the United States on charges of laundering billions of dollars' worth of bitcoin.

Vinnik is the subject of a judicial tug-of-war between the U.S. and Russia, which is also seeking his extradition on lesser charges. The U.S. is accusing Vinnik of laundering \$4 billion worth of bitcoins through BTC-e, one of the world's largest digital currency exchanges, which he allegedly operated. Russia accuses him of a 667,000-ruble (\$11,500) fraud.

Greek courts have approved both extradition requests. The 37-year-old, who denies all charges, is appealing against the decision to extradite him to the U.S. He is not contesting the Russian extradition request.

If Greece's Supreme Court upholds the lower court's order, a final decision will rest with Greece's justice minister.

The Supreme Court set a new hearing date for Dec. 6.

"We asked the court to postpone the hearing today of the U.S. request for the extradition of Vinnik, so that two essential witnesses can come who couldn't unfortunately come to Athens today," said Alexandros Lykourezos, one of Vinnik's lawyers. "These witnesses will be able to testify and help the court understand the essential issues that arise from this case."

The U.S. Justice Department says Vinnik has been indicted by a grand jury in the Northern District of California on charges including money laundering, conspiracy to commit money laundering, and engaging in unlawful monetary transactions. The charges carry maximum sentences of up to 20 years in prison.

Vinnik was arrested in July on a U.S. request while he was on holiday with his family in the Halkidiki area of northern Greece, which is popular with Russian tourists.

ΑΣΤΥΝ



YOUR BRAND HAS NEVER
BEEN IN SUCH GOOD COMPANY



ads@applemagazine.com



MindfieldDigital

MASTHEAD

APPLEMAGAZINE INTERNATIONAL
applemagazine.com

SUBSCRIPTIONS

AppleMagazine Official Website
applemagazine.com

Zinio LLC.
zino.com

Readr Newsstand
readrapp.com

Magzter Newsstand
magzter.com

Amazon Newsstand
amazon.com

Ebsco/Flipster
ebsco.com

Scoop Newsstand (Singapore)
getscoop.com

CONTACTS

Suport & CRM - contact@applemagazine.com
Magazine and Website Editor - editor@applemagazine.com
Executive Director - ceo@applemagazine.com
Advertise - ads@applemagazine.com

EXECUTIVE DIRECTOR

Ivan Castilho
Chief Executive Officer / Design Conception

MINDFIELD DIGITAL ART & GRAPHIC DESIGN

Glauco Ribeiro
Chief Design Officer / Art & Graphic Design Director

Michael Danglen
Art & Graphic Design Producer

Anderson Oliveira
Art & Graphic Design Producer

MAGAZINE EDITORIAL CONTENT

Benjamin Kerry
Chief Editor

OFFICIAL WEBSITE

Benjamin Kerry
Production Director

Jack Crute
WordPress Production & Website Support

WRITERS

Precise English Inc.
Benjamin Kerry (UK)
Gavin Lenaghan (UK)
Craig Lenaghan (UK)
Elena Lusk (US)

COLUMNS

iTUNES REVIEW
Gavin Lenaghan

FINANCE NEWS
Associated Press / Bloomberg

REVISION

Gavin Lenaghan
Jack Crute

PRODUCTION SUPPORT / COLLABORATORS

Rui da Costa
Segolene Vincent
Fabian Groenhof
Lise Berda
James Jarvis
Richard Sawyer
Lauren Brown
Matthew Coburn
Jeffrey Milks
Susan Kiesling
Raquel Serrano
Robert Fluellen
Lisa Swiniarski
Roger Gayalkar

Icy Ventura
Pilar Bescos
Candice Liu

PRIVACY POLICY
applemagazine.com/privacy-policy/

TERMS OF USE
applemagazine.com/terms-of-use/

SOCIAL NETWORKS



Twitter
@apple_magazine
twitter.com/#!/Apple_Magazine



Facebook
facebook.com/applemagazineinternational

Authorized Publisher

Ap Associated Press

The New York Times

BBC NEWS

Bloomberg

Los Angeles Times

UPI.com

Sun

PRNewswire

Daily Press

AppleMagazine © Copyright 2017-2011. All Rights Reserved.

No part of the document may be circulated, quoted, or reproduced for distribution without prior written approval.
Proper Trademark Notice and Attribution iPhone™, iPad™, HomePod™, Apple Watch™, iPod™, Mac™, iMac™, Macbook™, AppleTV™, Siri™, iOS™, OS X™, watchOS™, and others are trademarks of Apple Inc., registered in the US and other countries. Please contact support for additional trademark ownership rights information.
The following is a list of Apple's trademarks and service marks <http://www.apple.com/legal/trademark/appletmlist.html>.
All other trademarks are the properties of their owners.

AppleMagazine is an independent publication and has not been authorized, sponsored, or otherwise approved by Apple Inc.

Apple *Magazine*[™]

AppleMagazine.com